



PROBATIONARY OFFICERS' EXAMINATION

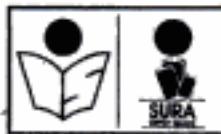


**PREVIOUS YEARS'
QUESTIONS WITH
EXPLANATORY
ANSWERS**

PROBATIONARY OFFICERS' EXAMINATION

Previous Years' Questions with Explanatory Answers

By
V.V.K. Subburaj



SURA COLLEGE OF COMPETITION

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GENERAL AWARENESS

- | | |
|--|--|
| <p>1. The UPA Government's main programme for winning the people's goodwill has been the Employment Guarantee Scheme (EGS) for a large majority of rural poor. However, there are three common fears about the scheme which are required to be addressed to make the scheme foolproof and effective. Which of the following is/are NOT amongst these common fears ? (As reported in the media & press)</p> <p>(A) Money should not go waste due to widespread corruption in society.
 (B) The scheme may lead to financial bankruptcy.
 (C) The Government may not have enough jobs for all the job seekers.</p> | <p>4. Which of the following countries recently started Clinical Trial of AIDS vaccine ?</p> <p>(a) South Africa (b) India
 (c) US (d) Russia
 (e) None of these</p> <p>5. As reported in the press the Government of India is considering a proposal to reduce its holding in Public Sector Banks (PSBs) to a uniform level of</p> <p>(a) 26% (b) 33%
 (c) 49% (d) 51%
 (e) 75%</p> |
| <p>Codes:</p> <p>(a) Only (A) (b) Only (B)
 (c) Only (C) (d) Only (A) & (B)
 (e) Only (B) & (C)</p> <p>2. The Government of India is planning to introduce lot of tax reforms so that the Tax-GDP ratio may be improved. At present what is Tax-GDP ratio for the centre and states combined ?</p> <p>(a) 7.5% (b) 8.5%
 (c) 10% (d) 12%
 (e) 15%</p> | <p>6. The Kyoto Protocol on global warming came into effect from February 2005. All the nations except two have accepted and implemented the protocol in their countries. Which are these two countries ?</p> <p>(a) India & Pakistan
 (b) Pakistan & Bangladesh
 (c) US & Australia
 (d) Australia & France
 (e) None of these.</p> |
| <p>3. The Prasar Bharati recently launched its 'Direct To Home' (DTH) Service. How will the service help the televiwers in India ? [Pick up the correct statement(s)]</p> <p>(A) The service will be available at a very cheaper rate through local cable operators.
 (B) Subscribers will be able to see any channel of their choice without any medium like cable operators.
 (C) The cable dry areas (areas which are not covered by cable service) will not be covered easily through DTH services.</p> | <p>7. As per the recent amendment in the Factories Act, women are now allowed to work</p> <p>(a) In late night shifts in certain industries
 (b) Only in day shifts in all the industries
 (c) In night shifts in telecom & communication industry only
 (d) Only in those industries where shifts are not permitted
 (e) Only in those factories where men are not employed in supervisory cadre</p> |
| <p>Codes:</p> <p>(a) Only (A) (b) Only (B)
 (c) Only (C) (d) Only (A) & (B)
 (e) Only (B) & (C)</p> | <p>8. The Government of India is likely to kick off the disinvestment process in near future by selling shares in some major companies. What decision is taken regarding proceeds of the same ?</p> <p>(A) It will be deposited as the fund available to the Planning Commission.
 (B) A separate fund known as National Investment Fund is created for the purpose</p> |

(C) The proceeds will be invested in Sarva Shiksha Abhiyan so that the literacy rate can be increased.

Codes:

- | | |
|-------------------|--------------------|
| (a) Only (A) | (b) Only (B) |
| (c) Only (C) | (d) Only (A) & (B) |
| (e) None of these | |

9. Which of the following is TRUE about the RBI's Annual Monetary and Credit Policy announced in April 2005 ?

- (A) Bank rates are changed to 6.5%.
 (B) Cash Reserve Ratio (CRR) remained unchanged.
 (C) Fixed reserve repo rate hiked by 0.25 percent.

Codes:

- | | |
|--------------------|--------------------|
| (a) Only (A) | (b) Only (B) |
| (c) Only (C) | (d) Only (A) & (B) |
| (e) Only (B) & (C) | |

10. Who amongst the following is the Chairman of the Task Force constituted to prepare a long term plan for the social and economic development of Jammu & Kashmir ?

- (a) C. Rangarajan
 (b) Girija Vyas
 (c) Montek Singh Ahluwalia
 (d) Priyanka Gandhi
 (e) None of these

11. Which of the following commissions is being set up to give India "the knowledge edge in the world" and help it to "consolidate its position as knowledge power"?

- (a) Disinvestment Commission
 (b) Commission for SC/ST and OBC
 (c) Kelkar Commission on Reforms in Banking Sector
 (d) Tribal Welfare Commission
 (e) None of these

12. The Women Cricket World Cup Final was played recently in Durban between India and

- (a) England (b) New Zealand
 (c) Australia (d) South Africa
 (e) None of these

13. Who amongst the following leaders of the Congress Party left the party and launched a new political party named as "National Congress (Indira)"?

- (a) Arjun Singh
 (b) Shyama Charan Shukla

- (c) Ambika Soni
 (d) K. Karunakaran
 (e) None of these

14. Which of the following statements is/are TRUE about the Emergency in Nepal ?

- (A) Emergency is lifted.
 (B) Press Censorship is still going on.
 (C) Only Indian news channels are allowed to telecast news and programmes.

Codes:

- | | |
|------------------------|--------------------|
| (a) Only (A) | (b) Only (B) |
| (c) (A), (B) & (C) all | (d) Only (B) & (C) |
| (e) None of these | |

15. The highest South African honour for foreign nationals, "The order of the companies of O.R. Tambo", was conferred upon whom recently?

- (a) Indira Gandhi (b) M.K. Gandhi
 (c) J.L. Nehru (d) Rajiv Gandhi
 (e) None of these

16. How much amount the Government of India has provided to set up Rural Knowledge Centres in every village by 2007 ? (Approximately)

- (a) Rs. 50 crore (b) Rs. 100 crore
 (c) Rs. 150 crore (d) Rs. 200 crore
 (e) Rs. 250 crore

17. The Economic Survey 2005-06 was presented in the Parliament recently. Which of the following statement(s) is/are TRUE about the same ?

- (A) Foodgrain production during the period of 2005-06 improved by 11 percent.
 (B) Agriculture and allied sector grew by 1.1 percent.
 (C) It is recommended that more services should be brought under the tax net.

Codes:

- | | |
|--------------------|--------------------|
| (a) Only (A) | (b) Only (B) |
| (c) Only (A) & (B) | (d) Only (B) & (C) |
| (e) None of these | |

18. The aim of the Sarva Shiksha Abhiyan is to achieve universalisation of elementary education by the year

- (a) 2007 (b) 2008
 (c) 2009 (d) 2010
 (e) 2012

- 19. Who amongst the following is the new Chief Election Commissioner of India ?**
- (a) G. Gopalaswamy (b) T.K. Krishnamurthy
 (c) Shyam Saran (d) Neera Yadav
 (e) None of these
- 20. An International Container Trans-shipment Terminal was launched recently at the port of**
- (a) Cochin (b) Kolkata
 (c) Mumbai (d) Goa
 (e) Visakhapatnam
- 21. Who amongst the following unequivocally declared that "Israel intends to honour the Palestinians' right to live in independence and dignity" ?**
- (a) Hosni Mubarak
 (b) King Abdullah-II of Jordan
 (c) Mahmoud Abbas, the Palestine leader
 (d) Ariel Sharon of Israel
 (e) Kofi Annan, the Secretary-General of UNO
- 22. Hugo Chavez was on a visit to India in March 2004. He is the**
- (a) President of Venezuela
 (b) Prime Minister of Venezuela
 (c) President of Italy
 (d) Prime Minister of Italy
 (e) None of these
- 23. Who amongst the following is the director of the film *Veer-Zaara*, the award winning film?**
- (a) Mahesh Bhatt (b) Yash Chopra
 (c) Satish Dhawan (d) Satish Kaushik
 (e) None of these
- 24. Sania Mirza recently became the first Indian Woman to win which of the following titles?**
- (a) WTA Singles (b) Dubai Open Singles
 (c) Paris Indoor Open (d) Davis Cup (Asia)
 (e) None of these
- 25. A revolution in which of the following countries took place in which President Askar Akaev was thrown out. Now the interim Government does NOT wish him to come back to that country ?**
- (a) Kyrgyzstan (b) Mongolia
 (c) Congo (d) Zimbabwe
 (e) None of these
- 26. Which of the following is TRUE about the political situation in Lebanon ?**
- (A) The latest Presidential nominee, Omar Karami also failed to form a coalition Government.
- (B) Lebanon forced Syria to remove all its troops from Lebanon.
 (C) General Elections are due in Lebanon in May 2006.
- Codes:**
- (a) Only (A) (b) Only (B)
 (c) Only (A) & (B) (d) Only (C)
 (e) None of these
- 27. Which of the following countries has passed a law threatening Taiwan with war if it attempts to declare it as an independent country ?**
- (a) Russia (b) China
 (c) Mongolia (d) US
 (e) None of these
- 28. India recently signed an agreement with which of the following countries to permit her to operate any number of flights from any point in each other's territory ?**
- (a) Russia (b) UK
 (c) US (d) Pakistan
 (e) None of these
- 29. Pervez Musharraf watched the One Day International played at which of the following places recently in India ?**
- (a) Kanpur (b) Ahmedabad
 (c) Bangalore (d) Delhi
 (e) None of these
- 30. Who amongst the following is the author of the book "My Music, My Life" ?**
- (a) Zakir Hussain
 (b) Vishwa Mohan Bhatt
 (c) Amjad Ali Khan
 (d) M.S. Subbalakshmi
 (e) Pt. Ravi Shankar
- 31. Indian Cricket Team is likely to visit Pakistan in**
- (a) January/February 2006
 (b) March/April 2006
 (c) September 2005
 (d) December 2005
 (e) August 2005
- 32. India's Commerce & Industry Minister was in a meeting called by the WTO in Paris. What tariff plan India has suggested for agri products ?**
- (a) The agri products should not be charged extra and must be free from all sorts of taxes and duties

ENGLISH LANGUAGE

Directions (Q. 51 to 65): Read the following passage carefully and answer the questions given below it. Certain words/expressions are given in bold in the passage to help you locate them while answering some of the questions.

PASSAGE

Let imagination give us two travellers. Put 25 centuries between them. One traveller enters New York, 1970; halfway around the world, the other makes his way into Babylon, 600 B.C. Over 80 generations of mankind separate the two travellers, yet in our imaginary picture they share common reactions to their respective cities: awe and fascination directed to the structures that man has raised from the ground to compete with the clouds.

Skyscrapers are indeed a mark of the 20th century, but today's towering buildings have worthy forebears in the ancient Middle East. Then as now, architects aspired to lead the eye of the beholder upward. The traveller to Babylon, for example, would gaze upon the High Place, the ziggurat known to history as the Tower of Babel. Perhaps a passerby would tell the visitor of King Nebuchadnezzar's inscription high in the Tower: "I prepared to place the summit in position so that it might compete with Heaven..."

To Babylonians and other peoples of the Fertile Crescent, the ziggurats were material links between

the earth and the heavens—between the known and the unknown. At least one ziggurat, serving as the **sanctuary** of the local god, was built in each city. It stood apart from the temple, much as the campanile stands apart from Italian churches or minarets from mosques.

At the base was a rectangular hill of sun-baked brick. A spiral-shaped tower lifted itself from the base, with each story a different colour. Ordinary citizens did not enter the sanctuary, but priests ascended on an outside ramp formed by the spiral. Atop the tower the priests made celestial observations and with their astrology, counselled the lovelorn and recommended the best days for doing business. The towers also served as meteorological stations from which weather predictions were issued.

Curiously enough, the Babylonians persisted in building with clay when they were well aware that fired bricks were much more durable. Thus it was necessary for monarchs repeatedly to repair the structure. When Nebuchadnezzar undertook the Tower of Babel's most famous face lifting, mentioned in the Bible, the structure was almost a thousand years old and had already undergone previous refurnishings. Completed, the Tower stood 297 feet high, just three feet short of the Statue of Liberty.

The Tower of Babel was, however, a relative latecomer to the ranks of ancient skyscrapers. Let us go back yet another 2,400 years—to about 3000 B.C.—to the age when the Great Pyramid of Gizeh was built in Egypt. The Egyptians, too, were stargazers, and with astrological calculations that were phenomenally accurate, the Pharaoh caused the pyramid to rise with its sides facing exactly North, South, East and West.

51. Which of the following is 'false' in the context of the passage?

- (a) Skyscrapers appeared for the first time only in 20th century
- (b) Ancient Middle East had a number of high rise buildings
- (c) The Tower of Babel is a high rise building
- (d) High rise manager does not consider it as a link between the Earth and the Heaven
- (e) None of these

52. In what way were the towers used during ancient time?

- (A) As a sanctuary for ordinary citizens.
- (B) For the priests to make celestial observations.
- (C) For weather predictions.

Codes:

- | | |
|-------------------|-------------------|
| (a) A and B only | (b) A and C only |
| (c) B and C only | (d) All the three |
| (e) None of these | |

53. What similarity do the two travellers observe as mentioned in the passage?

- (a) The clouds covering the land
- (b) Surprise and admiration of the construction
- (c) The generation gap between them all over 25 centuries
- (d) Comparison between New York and Babylon
- (e) None of these

54. The purpose of the passage seems to give an account of

- (a) the comparison between some ancient and some recent high rise buildings
- (b) how the monarchs of the yester-years were tempted by high rise buildings
- (c) the height of the Statue of Liberty and certain other buildings
- (d) labour involved in building high rise structures
- (e) None of these

55. Which of the following is / are the ancient forebears of the modern day skyscrapers?

- (A) The Tower of Babel
- (B) The Great Pyramid of Gizeh
- (C) The Statue of Liberty

Codes:

- | | |
|-------------------|-------------------|
| (a) Only A and B | (b) Only A and C |
| (c) Only B and C | (d) All the three |
| (e) None of these | |

56. Which quality of the ancient Egyptians is highlighted by the author in the passage?

- (a) Their perseverance of constructing buildings
- (b) Their insistence on, building structures made of clay
- (c) Their awareness of the strengths of different construction materials
- (d) Their high degree of accuracy in astrological calculations
- (e) None of these

57. Which of the following surprises the author?

- (a) Babylonians knowledge of strength of fire-bricks
- (b) Babylonians knowledge of weakness of clay structures
- (c) Despite knowing weakness of clay, Babylonians built structures of clay
- (d) Monarch's patience in repairing the clay structures
- (e) None of these

58. Which among the following is, according to the passage, the most ancient construction?

- (a) The Statue of Liberty
- (b) The Tower of Babel
- (c) The Great Pyramid of Gizeh
- (d) The Fertile Crescent
- (e) Nebuchadnezzar's Palace

59. What use did the priests make of the place atop the tower?

- (A) For observation of the outer space.
- (B) For suggesting favourable time to do certain things.
- (C) For recommending entry of ordinary citizens to sanctuary.

Codes:

- | | |
|-------------------|-------------------|
| (a) A and B only | (b) A and C only |
| (c) B and C only | (d) All the three |
| (e) None of these | |

Choose the word or group of words which is most nearly the **SAME IN MEANING** as the word given in capital.

60. SUMMIT

- | | |
|---------------|----------------|
| (a) Closeness | (b) Committee |
| (c) Street | (d) Playground |
| (e) Peak | |

61. SANCTUARY

- | | |
|----------------|----------|
| (a) Shelter | (b) Nest |
| (c) Cage | (d) Room |
| (e) Dispensary | |

62. AWE

- | | |
|------------|-----------------|
| (a) Heat | (b) Patience |
| (c) Wonder | (d) Expectation |
| (e) Anger | |

Choose the word or group of words which is most **OPPOSITE IN MEANING** of the word given in capital.

63. PHENOMENALLY

- | | |
|------------------|--------------------|
| (a) Unbelievably | (b) Unremarkably |
| (c) Incredibly | (d) Extra-ordinary |
| (e) Astoundingly | |

64. DURABLE

- | | |
|---------------|------------|
| (a) Flexible | (b) Robust |
| (c) Resilient | (d) Flimsy |
| (e) Tough | |

65. ANCIENT

- | | |
|--------------|------------------|
| (a) Extreme | (b) Olden |
| (c) Future | (d) Contemporary |
| (e) Imminent | |

Directions (Q. 66 - 75): Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in *italics* in the following sentence to make the sentence grammatically meaningful and correct. If the sentence is correct as it is and no correction is required, mark (e) as the answer.

66. Through his struggle, he *gained some recognised* for his fellow beings.

- | |
|-----------------------------|
| (a) regained and recognised |
| (b) gained some recognition |
| (c) gains some recognising |
| (d) gained some recognise |
| (e) No correction required |

67. Diplomats of various countries *were assembling at* the palace for the ceremony.

- | |
|-----------------------|
| (a) were assembled to |
| (b) had assembled at |

- | |
|----------------------------|
| (c) had been assembled at |
| (d) were being assembled |
| (e) No correction required |

68. Whether your statement is *right or not*, he is going to blame you.

- | |
|----------------------------|
| (a) right or wrong |
| (b) right or otherwise |
| (c) right fully or partly |
| (d) partly right or not |
| (e) No correction required |

69. What *surprised me mostly was* his articulate speech.

- | |
|-------------------------------|
| (a) surprises me mostly was |
| (b) did surprise me mostly is |
| (c) surprised me most was |
| (d) did surprise me most is |
| (e) No correction required |

70. *Despite of his best efforts, he failed to accomplish his goal.*

- | | |
|----------------------------|-----------------|
| (a) In spite | (b) Despite for |
| (c) In spite for | (d) Despite |
| (e) No correction required | |

71. The staff members wanted *he to take over as the Secretary to the MD.*

- | |
|------------------------------|
| (a) him to take over |
| (b) he that should take over |
| (c) him to taken over |
| (d) him for a take over |
| (e) No correction required |

72. Pilgrims visit the shrine throughout the year but *influx has great* during festival days.

- | |
|----------------------------|
| (a) influx was great |
| (b) has great influx |
| (c) has been great influx |
| (d) influx is greater |
| (e) No correction required |

73. They had come here to examine the *extend of impact of the earthquake.*

- | |
|--------------------------------|
| (a) extending of impact |
| (b) extension of the impacting |
| (c) extent of impact |
| (d) impact of extend |
| (e) No correction required |

74. If you *are being worried*, our performance will be hampered.

- | | |
|----------------------------|-----------------------|
| (a) are worried | (b) have been worried |
| (c) have worry | (d) had worries |
| (e) No correction required | |

75. The Chairman *wants you to help* him solve the riddle.

 - wants to help you to
 - wanted to you to help
 - wants your help for
 - wanted your help for
 - No correction required

Directions (Q. 76 - 80): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

 - The tactics of these cheats have come down drastically.
 - Most people have by now realised that the so-called 'miracles' are effects of scientific principles.
 - Thus, such awakening will certainly reduce the agony of the common folk.
 - Awareness of scientific discoveries and inventions have led the common folk to get rid of superstitions.
 - Therefore, they are trying to find out other ways and means to accomplish their selfish motives.
 - They have also realised how cunning people had been cheating them.

76. Which of the following should be the SECOND sentence after rearrangement?

 - A
 - B
 - C
 - D
 - E

77. Which of the following should be the FIRST sentence after rearrangement?

 - A
 - B
 - C
 - D
 - E

78. Which of the following should be the FIFTH sentence after rearrangement?

 - F
 - B
 - C
 - D
 - E

79. Which of the following will be the SIXTH sentence after rearrangement?

 - A
 - B
 - C
 - D
 - E

80. Which of the following should be the FOURTH sentence after rearrangement?

Directions (Q. 81 – 85): Read each sentence to find out if there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (e) i.e., 'No Error'. (Ignore the error of punctuation, if any)

81. A temple feast is (a) / usually celebrates (b) / in the honour of the deity (c) / to whom the temple is dedicated (d). No error (e)

82. The great danger (a) / to ships entered the harbour (b) / is from strong currents (c) / and sudden storms (d). No error (e)

83. Before he becoming (a) / Chief pilot in the aviation services (b) / he had undergone (c) / rigorous training for eight years (d). No error (e)

84. A person performs (a) / well if he is (b) / required to do (c) / a thing that interest him most (d). No error (e)

85. Fragments of ancient cultures (a) / indicates that the first wheels (b) / were probably developing (c) / in logical steps (d). No error (e)

Directions (Q. 86 – 90): Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

90. All of _____ happened thousands of years before Columbus set sail.

 - (a) what
 - (b) whats
 - (c) them
 - (d) this
 - (e) which

Directions (Q. 91 – 100): In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

PASSAGE

The world-famous scientist, Albert Einstein called his brand of religion the 'cosmic religion'. "Our yonder, there is this huge world, which exists ... (91) ... of human beings and which stands ... (92) ... us like a great, eternal riddle, at least partially accessible our inspection and thinking". And he went ... (93) ... to make the famed statement, "Science without religion is lame; religion without science is blind".

Interestingly, Raja Ramianna, who towered in the field of atomic science, was also ... (94)... interested in philosophy and well ... (95)... with the scriptures. In one of his lectures he made this ... (96)... on the convergence of physics and metaphysics: "We know that Quantum Entanglement is a physical fact and can also be ... (97)... to larger than microscopic systems. It seems that we are all tied up by this ... (98)... connection and it may become another way of communicating with another, leading to a collective 'moksha' where both 'chit' and 'achit' are fully ... (99)... Such a possibility, ... (100)... remote, exists".

QUANTITATIVE APTITUDE

Directions (Q. 101-105): What should come in place of the question mark (?) in the following questions?

$$101. \quad 1\frac{8}{9} + 3\frac{2}{7} - 2\frac{1}{7} + 11\frac{1}{6} = ?$$

- (a) $7\frac{12}{223}$ (b) $14\frac{25}{223}$
 (c) $14\frac{25}{126}$ * (d) $7\frac{11}{126}$
 (e) None of these

105. $\sqrt{915849} + \sqrt{795664} = (?)^2$

- (a) 1849
- (b) 79
- (c) 33
- (d) 37
- (e) None of these

Directions (Q. 106-110): What approximate value should come in place of the question mark (?) in the following questions?

106. $63.9872 \times 9449.8780 \div 243.0034 = (?)^2$

- (a) 2489
- (b) 2500
- (c) 50
- (d) 45
- (e) 150

107. $5237.897 - 6629.010 + 7153.999 - 2205.102 = ?$

- (a) 6340
- (b) 4688
- (c) 5240
- (d) 3558
- (e) 6290

108. $4985.0346 \div 215.987 - 3768.112 \div 206.868 = ?$

- (a) 8
- (b) 5
- (c) 18
- (d) 11
- (e) 15

109. $\sqrt{956240} = ?$

- (a) 979
- (b) 864
- (c) 1009
- (d) 647
- (e) 783

110. 459% of 849.947 + 266% of 6284.012 - 1486.002 = ?

- (a) 20330
- (b) 12640
- (c) 15000
- (d) 22160
- (e) 19130

Directions (Q. 111-114): In each of the following questions a number series is given. After the series a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the number given, following the sequence of the original series and answer the questions that follow the series.

111. 12 30 120 460 1368 2730
16 (a) (b) (c) (d) (e)

What will come in place of (d) ?

- (a) 1384
- (b) 2642
- (c) 2808
- (d) 1988
- (e) None of these

112. 154 462 231 693 346.5 1039.5
276 (a) (b) (c) (d) (e)

What will come in place of (e) ?

- (a) 1746
- (b) 621
- (c) 1242
- (d) 983
- (e) None of these

113. 7 91 1001 7007 35035 105105

- (a) 14.5
- (b)
- (c)
- (d)
- (e)

What will come in place of (c) ?

- (a) 21132.5
- (b) 14514.5
- (c) 20020.5
- (d) 13864.5
- (e) None of these

114. 582 574 601 537 662 446
204 (a) (b) (c) (d) (e)

What will come in place of (d) ?

- (a) 284
- (b) 68
- (c) 174
- (d) 331
- (e) None of these

Directions (Q. 115-119): In each of the following questions two equations I and II are given. You have to solve both the equations and

Give answer if

- | | |
|-----|---|
| (a) | $x > y$ |
| (b) | $x \leq y$ |
| (c) | $x < y$ |
| (d) | $x > y$ |
| (e) | $x = y$ or relationship between x and y cannot be established |

115. I. $6x^2 + 13x + 5 = 0$

II. $9y^2 + 22y + 8 = 0$

116. I. $4x + 2y = 51$

II. $15y + 13x = 221$

117. I. $(x + y)^2 = 784$

II. $92551 = 92567 - y$

118. I. $8x^2 + 3x = 38$

II. $6y^2 + 34 = 29y$

119. I. $x^2 + 91 = 20x$

II. $10y^2 - 29y + 21 = 0$

120. A basket contains 6 red, 5 green and 8 blue balls. If four balls are picked at random, what is the probability that all four of them are either red or any two out of the four are green?

(a) $\frac{5}{1292}$ (b) $\frac{925}{3876}$

(c) $\frac{359}{1938}$ (d) $\frac{11}{3876}$

- (e) None of these

121. Satish invests Rs. 35,500 in a scheme which earns him simple interest @ 15 p.c.p.a. for two years. At the end of two years he reinvests the principal amount plus interest earned in

another scheme which earns him compound interest @ 20 p.c.p.a. What will be the total interest earned by Satish over the principal amount at the end of 5 years?

- (a) Rs. 30,956.80 (b) Rs. 35,017.20
 (c) Rs. 43,597.80 (d) Rs. 44,247.20
 (e) None of these

122. 12 men can complete a piece of work in 36 days. 18 women can complete the same piece of work in 60 days. 8 men and 20 women work together for 20 days. If only women were to complete the remaining piece of work in 4 days, how many women would be required?

- (a) 70 (b) 28
 (c) 66 (d) 40
 (e) None of these

123. The number obtained by interchanging the two digits of a two-digit number is less than the original number by 27. If the difference between the two digits of the number is 3, what is the original number?

- (a) 74 (b) 63
 (c) 85 (d) Cannot be determined
 (e) None of these

124. A train running at the speed of 20 metres/second crosses a pole in 24 seconds less than the time it requires to cross a platform thrice its length at the same speed. What is the length of the train?

- (a) 270 metres (b) 340 metres
 (c) 180 metres (d) Cannot be determined
 (e) None of these

Directions (Q. 125-129): Study the following informations carefully to answer the questions given below it

In a school of 2500 students, all the students have enrolled for different games viz. hockey, table-tennis, badminton, football, cricket, chess and carrom. The respective ratio of girls to boys in the school is 3 : 2. 20% of the boys play only cricket. 25% of the girls play table-tennis, badminton and carrom only. 26.8% of the boys play only football. The number of girls playing only cricket is 175%

of the boys playing the same. The respective ratio of girls playing only chess to boys playing only chess is 12 : 11. 25.7% of the boys play hockey, table-tennis and carrom only. One-fourth of the girls play only badminton. The remaining girls play football and hockey only. The remaining boys play only chess.

125. How many students play more than one game?

- (a) 850 (b) 862
 (c) 732 (d) 670
 (e) None of these

126. The total number of students playing hockey is what per cent of the total number of students in the school?

- (a) 25.7 (b) 10.8
 (c) 14.28 (d) 21.14
 (e) None of these

127. What is the respective ratio of total number of boys playing chess to the total number of girls playing badminton?

- (a) 11 : 30 (b) 13 : 32
 (c) 9 : 29 (d) 13 : 29
 (e) None of these

128. What is the total number of students playing football, cricket and table-tennis?

- (a) 1300 (b) 1550
 (c) 1450 (d) 1650
 (e) None of these

129. How many students play carrom?

- (a) 475 (b) 600
 (c) 538 (d) 482
 (e) None of these

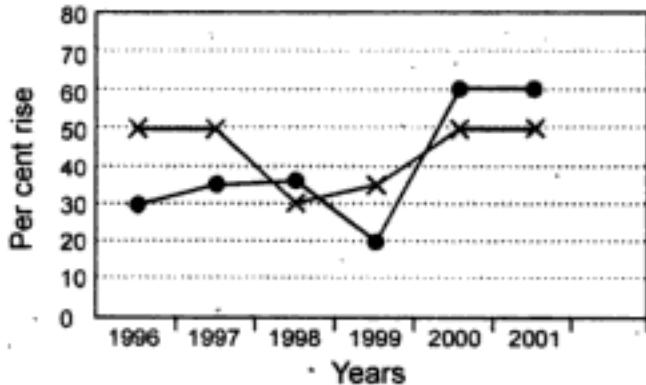
Directions (Q. 130-134): Study the table carefully to answer the questions that follow

Per annum income of six men and the percentage break-up of their spending pattern

Name	Per Annum Income (Rs. in Lakhs)	Percentage break-up of spending pattern					
		Eating out	Shopping	Watching Movies	Health	Savings	Miscellaneous
Ravi	2.05	21.8	14.6	20.4	16.4	14.5	12.3
Satish	2.25	20.9	15.7	15.6	11.4	15.3	21.1
Anu	1.95	14.3	16.6	18.5	21.5	16.4	12.7
Vilas	2.00	18.6	14.5	18.7	21.5	16.2	10.5
Arif	1.75	17.8	12.8	19.5	21.0	18.2	10.7
Suresh	1.70	12.0	18.6	10.5	18.2	22.4	18.3

130. What is the total amount of savings of all the men together?
 (a) Rs. 1,98,460 (b) Rs. 1,42,524
 (c) Rs. 1,89,520 (d) Rs. 1,56,625
 (e) None of these
131. Who spends the maximum amount on shopping?
 (a) Ravi (b) Suresh
 (c) Satish (d) Arun
 (e) None of these
132. Amount spent by Suresh on health is what per cent of the total amount spent by all the men together on Health? (rounded off to two digits after decimal)
 (a) 16.24 (b) 14.60
 (c) 18.04 (d) 12.35
 (e) None of these
133. Per annum income of Arif is approximately what per cent of the total per annum income of all the men together?
 (a) 10 (b) 22
 (c) 27 (d) 19
 (e) 15
134. What is the respective ratio of total amount spent by Ravi on Eating out and Watching Movies together to the total amount spent by Arun on the same?
 (a) 156 : 211 (b) 217 : 253
 (c) 253 : 217 (d) 211 : 156
 (e) None of these
- Directions (Q. 135-139): Study the graph carefully to answer the questions that follow*
-
- | States | Number of Hotels (in thousands) |
|--------|---------------------------------|
| A | 1.6 |
| B | 1.4 |
| C | 0.5 |
| D | 3.5 |
| E | 2.8 |
| F | 1.0 |
| G | 3.0 |
| H | 2.0 |
| I | 2.5 |
| J | 2.6 |
| K | 3.5 |
135. Total number of hotels from States B, D and F together form approximately what per cent of the total number of hotels from all States together?
 (a) 19 (b) 23

- (c) 40 (d) 32
 (e) 36
136. What is the approximate average number of hotels from all the States together?
 (a) 2500 (b) 3000
 (c) 2200 (d) 2010
 (e) 3100
137. What is the respective ratio of number of hotels from States A, D and G together to the number of hotels from States C, H and K together?
 (a) 5 : 2 (b) 4 : 1
 (c) 6 : 5 (d) 3 : 4
 (e) None of these
138. Number of hotels in State J is what per cent of the total number of hotels from all the States together? (rounded off to two digits after decimal)
 (a) 15.12 (b) 17.24
 (c) 9.36 (d) 11.22
 (e) None of these
139. The respective ratio between number of hotels in State E to those in State I is 11:10. How many more hotels in State I would make the ratio between State E and State I 11 : 13 respectively?
 (a) 750 (b) 550
 (c) 300 (d) 800
 (e) None of these
- Directions (Q. 140-144): Study the following table carefully to answer the questions that follow*
- Number of women working in various departments of six different organisations**
- | Department \ Organisation | Production | HR | IT | Finance | Marketing | Merchandise |
|---------------------------|------------|-----|-----|---------|-----------|-------------|
| P | 155 | 250 | 320 | 405 | 150 | 50 |
| Q | 178 | 300 | 415 | 318 | 127 | 90 |
| R | 58 | 275 | 204 | 250 | 188 | 66 |
| S | 102 | 190 | 198 | 200 | 190 | 75 |
| T | 110 | 100 | 256 | 305 | 250 | 85 |
| U | 60 | 150 | 225 | 220 | 168 | 35 |
140. Number of women working in the HR department from organisation S is what per cent of the total number of women working in the HR departments from all organisations together? (rounded off to two digits after decimal)
 (a) 13.45 (b) 19.16
 (c) 21.92 (d) 15.02
 (e) None of these



TEST OF REASONING

151. In a certain code language "nik made" means "he has come", "de lit pa" means "come here fast" and "ma la se" means "she has gone". What is the code for "he" ?
 (a) nik (b) ma
 (c) de (d) Cannot be determined
 (e) None of these

152. If it is possible to make only one meaningful word from the second, the fourth, the sixth and the eighth letters of the word COMPUTER, second letter, of the word is your answer. If more than one such word can be formed, 'X' is your answer and if no such word can be formed, 'Z' is the answer.
 (a) R (b) P
 (c) O (d) X
 (e) Z

153. In a certain code language BANKER is written as 'LFSCBO', how will CONFER be written in that code ?
 (a) GFSDPO (b) FGSDOP
 (c) GFSEPO (d) FHSDPO
 (e) None of these

154. Four of the following five are alike in a certain way and so form a group. Which is the one that does NOT belong to the group ?
 (a) 143 (b) 168
 (c) 224 (d) 195
 (e) 257

155. How many such pairs of letters are there in the word RESIDENTIAL, each of which has as many letters between them in the word as in the English alphabet?
 (a) One (b) Two
 (c) Three (d) More than three
 (e) None of these

Directions (Q. 156 - 160): Study the following information carefully to answer these questions given below

3 D K \$ P 27 # @ 4 J T H 9 ★ F M R 15 % ? 6 8

156. How many such numerals are there in the above arrangement which are immediately followed by a symbol and also immediately preceded by a letter?
 (a) Four (b) Three
 (c) Two (d) One
 (e) None of these

157. What will come in place of question mark (?) in the following series based on the above arrangement ?
 KPD 7@2 ? ★M9
 (a) 4T@ (b) JH@
 (c) 4T# (d) JH4
 (e) None of these

158. How many such symbols are there in the above arrangement which are immediately followed by a letter but not immediately preceded by a letter ?
 (a) One (b) Two
 (c) Three (d) Nil
 (e) None of these

159. Four of the following five are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does NOT belong to the group ?
 (a) \$7 (b) @T
 (c) 9M (d) 1?
 (e) 8%

160. If DP : 65 ; 7@ : ?
 (a) 1M (b) RF
 (c) IF (d) RM
 (e) None of these

Directions (Q. 161 - 165): Study the following informations carefully to answer the questions given below

Seven friends P, E, R, T, Q, N and D are studying different specializations IT, Civil, HR, Marketing, Finance, Journalism and Pharmacy not necessarily in the same order. Each one of them have liking for a different colour red, blue, green, yellow, pink, orange and grey not necessarily in the same order. Three of them are girls.

P likes yellow colour but does not study IT or HR. The one who studies Civil, likes grey colour and is a girl. Q, who is sister of N, studies Marketing and likes pink colour. D's specialisation is in pharmacy and likes red colour. N, the wife of R studies HR and likes green. F likes grey and R likes orange, the one who likes blue studies Finance.

Directions (Q. 156-160): Study the following information carefully to answer these questions given below.

3 D K \$ P 27 # @ 4 J T H 9 ★ F M R 15 % ? 6 8

156. How many such numerals are there in the above arrangement which are immediately followed by a symbol and also immediately preceded by a letter?

Seven friends P, F, R, T, Q, N and D are studying different specializations IT, Civil, HR, Marketing, Finance, Journalism and Pharmacy not necessarily in the same order. Each one of them have liking for a different colour red, blue, green, yellow, pink, orange and grey not necessarily in the same order. Three of them are girls.

P likes yellow colour but does not study IT or HR. The one who studies Civil, likes grey colour and is a girl. Q, who is sister of N, studies Marketing and likes pink colour. D's specialisation is in pharmacy and likes red colour. N, the wife of R-studies HR and likes green. F likes grey and R likes orange, the one who likes blue studies Finance.

161. Who is studying Civil Engineering ?

- (a) P (b) T
- (c) F (d) Cannot be determined
- (e) None of these

162. Which of the following is the group of girls ?

- (a) F, D, N (b) F, Q, N
- (c) Q, N, P (d) Cannot be determined
- (e) None of these

163. Which subject is studied by R?

- (a) Civil (b) Finance
- (c) Journalism
- (d) Cannot be determined
- (e) None of these

164. Who is studying Journalism ?

- (a) P (b) Q
- (c) R
- (d) Cannot be determined
- (e) None of these

165. Which of the following combinations of person - colour and subject is correct?

- (a) Blue-T-Marketing
- (b) Pink-N-HR
- (c) Orange-R-Civil
- (d) Blue-T-Finance
- (e) None of these

Directions (Q. 166-170): In the following questions the symbols \$, #, @ % and ★ are used with the following meanings illustrated as below

'A \$ B' means 'A is not smaller than B'.

'A # B' means 'A is neither greater than nor equal to B'.

'A @ B' means 'A is neither smaller than nor equal to B'.

'A % B' means 'A is not greater than B'.

'A ★ B' means 'A is neither greater than nor smaller than B'.

In each of the following questions assuming the given statements to be true, find out which of the three conclusions I, II and III given below them is/are definitely true and indicate your answer accordingly.

166. Statements :

D ★ Q, Q @ L, L \$ B, B # G

- Conclusions: I. D @ B
II. B ★ D
III. G @ L

Codes:

- (a) Either I or II only (b) I and II only
- (c) I only (d) II and III only
- (e) None is true

167. Statements :

Z @ Y, Y # K, K % M, M @ T

Conclusions: I. Z @ M

II. Y @ T

III. Z # K

Codes:

- (a) I only (b) II and III only
- (c) Either I or III only (d) All I, II and III
- (e) None is true

168. Statements :

P # M, M % R, R ★ T, T # L

Conclusions: I. P # R

II. P ★ R

III. M % L

Codes:

- (a) I only (b) Either I or II only
- (c) III only (d) All I, II and III
- (e) None is true

169. Statements :

F @ H, M % H, M \$ R, G ★ M

Conclusions: I. F \$ R

II. F @ R

III. H \$ G

Codes:

- (a) II and III only (b) II only
- (c) III only (d) III and either I or II
- (e) None is true

170. Statements :

K @ T, T # D, D ★ F, F % G

Conclusions: I. G @ K

II. G ★ T

III. G @ T

Codes:

- (a) I and II only (b) II and III only
- (c) Either II or III only (d) III only
- (e) None is true

Directions (Q. 171 - 175): In each of the following questions, two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the questions below the row of numbers are to be answered. The operations of numbers progress from left to right.

Rules:

- (i) If an odd number is followed by another odd number which is a perfect square then they are to be added.
 - (ii) If an even number is followed by an odd number or an odd number is followed by an even number, they are to be multiplied.
 - (iii) If an even number is followed by another even number, the first number is to be divided by the second number.
 - (iv) If an even number which is a multiple of 5 is followed by an odd number which is also a multiple of 5, then second member is to be subtracted from the first number.

171. 248 8 25
 3 x 28

If x is the resultant of the first row, what is the resultant of the second row?

172. 24 3 18 2
 17 81 14 8

What is the product of the resultants of the two rows ? *

173. 50 15 6
n 125 2

If n is the resultant of the first row, what is the resultant of the second row?

,174. 9 121 10
m 12 26

If m is the resultant of the first row, what is the resultant of the second row?

- (a) 6
 - (b) 1
 - (c) 13
 - (d) Cannot be determined
 - (e) None of these

175. 18 7 6
140 85 4

What is the sum of the resultants of the two rows?

Directions (Q. 176-180): In each question below one statement is followed by blank spaces which are followed by a conclusion which can be drawn from either the statement given in the question or from the statement given in the question and an additional statement which may fit in the blank space. You have to Study the question and the alternatives which provide a statement and decide which of the statements best fit between the given statement and the conclusion.

176. Statement I: Flooding due to heavy rains caused severe damage to the belongings of many people.

Blank Space :.....

Conclusion: The damage is difficult to repair with whatever help the Government and the public may offer.

- (A) Statement II: Water entered the houses very fast giving no time to take remedial action.
 - (B) Statement II: Most people living on ground floor were shifted to the upper floors.
 - (C) Statement II: Damage was already caused before the help could reach the people.

Codes:

- (a) Only A (b) Only B
 (c) Only C (d) Either A or C
 (e) No additional statement is required to draw
 the conclusion

177. Statement I: The prices of motor cars will increase substantially in near future.

Blank Space :.....

Conclusion: The sale of cars will not be affected much.

- (A) Statement II:** However, people will continue to buy the cars as it is not very difficult to get vehicle loans.

- (B) Statement II:** However, people will protest against the rise in taxes on steel announced by the Government

- (C) Statement II:** However, this may help to ease the traffic on roads.

- Codes:**

 - (a) Only I and II
 - (b) Only I and III
 - (c) Only I and either II or III
 - (d) Any two of the three
 - (e) Question cannot be answered even with the information in all three statements

Manohar

- I. Pramilla is the mother-in-law of Rasbmi.
- II. Pramilla's brother is Raju's maternal uncle.
- III. Pramilla's husband is the only son of the wife of Raju.

Directions (Q. 186-190): Each of the questions below consists of a question and three statements below. Consider each statement carefully before deciding the data provided in which of the statements are sufficient to answer the question. You have to decide the data given below it. You have to choose number I, II and III given below it.

(e) None of these

Codes:

- (a) Only I is implicit
- (b) Only II is implicit
- (c) Only III is implicit
- (d) Only I and II are implicit

Codes:

- II. Corporation is expecting good earnings by way of faces from the high rise buildings.
- III. The corporation has taken the residents of the area into confidence and assured them of no inconvenience to them due to new construction.

Assumptions:

- I. The corporation will take care to fulfill the minimum requirements providing infrastructure in the area for the newly established business.

Statement: "...The municipal corporation of the city is granting permission to builders for new construction of high rise buildings for the city, despite the appeal from the environmentalists to avoid overdevelopment."

(a) Only I is implicit (b) Only II is implicit
 (c) Only I and II are implicit
 (d) All I, II and III are implicit
 (e) None of these

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III. Overall care of the child has become the need of the time as many women are working

I. Nowadays, extra curricular activities assume more importance over the studies.

II. Many parents would like to send their children to the school as it provides all the facilities.

ANSWER

184. Statement: "Our school provides all facilities like school bus service, computer training, sports facilities. Also gives opportunity to participate in various extra curricular activities apart from studies." - An advertisement by a public school

Codes:

- (a) Only I is implicit
- (b) Only II is implicit
- (c) Only III is implicit.
- (d) Only I and II are implicit
- (e) All I, II and III are implicit

- III. Reputation of the MBA.
- IV. Who are likely to affect the admission of students to the class.

I. Assumptions: Only those who are first class graduates can cope up with the studies for MBA courses.

(e) None of these

(d) Only I and II are implicit

(c) Only III is implicit

(b) Only I and II are implicit

(a) Only III is implicit

I. Many people will visit the shop to get the benefit of discount.

II. Customers may go to some other shop if the discount is not offered.

III. Offering discount is the best way to attract customers.

Codes:

(a) Only I is implicit

(b) Only II is implicit

(c) Both I and II are implicit

Statement: "Buy a variety of items from our shop and get upto 20% discount." - An advertisement.

- | | | | | | | |
|--|---|--------------------------|---|--|---|---|
| 196. $22 \$ 15 \% 8 = n$ | (a) TP | (b) RV | (c) QP | (d) QV | (e) MW | 204. Which of the following pairs of persons has second person sitting to the immediate left of the first person? |
| 197. $24 \# 5 @ 150 = m$ | (a) 8 | (b) 6 | (c) 3 | (d) 12 | (e) None of these | 197. $24 \# 5 @ 150 = m$ |
| 198. $60 ! 36 * 15 = m$ | (a) 12 | (b) 3 | (c) 8 | (d) 15 | (e) None of these | 198. $60 ! 36 * 15 = m$ |
| 199. $17 \# 4 @ 88$ | (a) 16 | (b) 20 | (c) 85 | (d) 68 | (e) None of these | 199. $17 \# 4 @ 88$ |
| 200. $32 \$ 8 \% 5 = t$ | (a) 18 | (b) 16 | (c) 12 | (d) 16 | (e) None of these | 200. $32 \$ 8 \% 5 = t$ |
| $t @ 12 * 7 = ?$ | (a) 12 | (b) 8 | (c) 4 | (d) 12 | (e) None of these | $t @ 12 * 7 = ?$ |
| Directions (Q. 201-205): In each question below is given a statement followed by three courses of action numbered I, II and III. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy etc. On the basis of the information given in the statement, you have to assume everything in the statement to be true, to assess every thing in the statement, you have to decide which of the suggested courses of action logically follows for pursuing. | 206. Statement: Most of the roads in the city had become unmotorable due to the rains in the monsoon. | Courses of action: | I. The civic authority should initiate an enquiry to find out the factors responsible for worsening road condition. | II. The civic authority should initiate an enquiry to find out the factors responsible for maintaining good condition of the city roads. | III. All those contractors, who were entrusted with maintenance work of these roads should be black listed. | 201. Who is to the immediate right of R? |
| Directions (Q. 201-205): Study the following information carefully to answer these questions. | 206. Statement: Most of the roads in the city had become unmotorable due to the rains in the monsoon. | Courses of action: | I. The civic authority should initiate an enquiry to find out the factors responsible for worsening road condition. | II. The civic authority should initiate an enquiry to find out the factors responsible for maintaining good condition of the city roads. | III. All those contractors, who were entrusted with maintenance work of these roads should be black listed. | 202. Which of the following pairs has the person sitting opposite each other? |
| 207. Statement : The prices of crude oil in the international market have increased substantially in the recent past and is likely to increase further in near future due to closure of refineries in the United States. | (a) Only I follows | (b) Only I and II follow | (c) Only III follows | (d) Only I and III follow | (e) None of these | 203. Four of the following five are alike in a certain way on the basis of their positions and so belong to the group. Which is the one that does not form a group. |

187. Who amongst Subodh, Neeraj, Tara, Meena and Anil is the first to take the lecture?
188. In a certain code language, 'DEAR' is written as '% # \$?'. 'RED' is written as '① * ? #', how is 'MORE' is written as '② @ ? # \$ %'.
189. In a certain code language, 'DREAM' is written as 'D@EAM'. Written in that code?
190. If E is replaced by 2, R by 5, T by 7, D by 3, S by 4, I by 6 and N by 9 then how is PRESIDENT written if its letters are reversed?
191. If the middle digit of each of the following numbers is increased by 2 and then the digits of each number are written in reverse order, which number will be the fourth if arranged in descending order?
- Directions (Q. 196-200):** In a certain instruction system, the different computation processes are written as follows
- (a) $x \$ y % z$ means x is added to y and the result is divided by z .
- (b) $x \# y @ z$ means x is multiplied by y and the result is subtracted from z .
- (c) $x @ y *$ z means x is added to y and the result is divided by z .
- (d) $x ! y$ means y is multiplied by z and the result is divided by x .
- (e) $x ? y$ means y is divided by x .

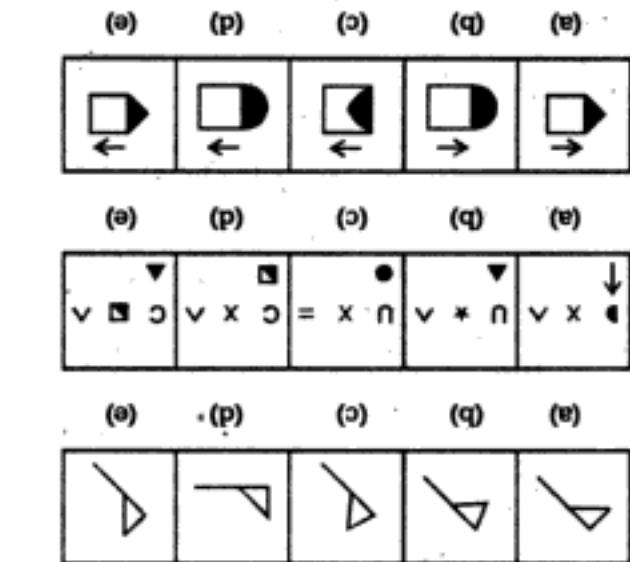
192. In a certain code language, 'DEAR' is written as 'D@EAM'. Written in that code?
193. In a row of children racing North, Seema is shifted to her right by four places becomes Sudhakar, who is fifteenth from the end of the row. Many children are there in the row?
194. If E is replaced by 2, R by 5, T by 7, D by 3, S by 4, I by 6 and N by 9 then how is PRESIDENT written if its letters are reversed?
195. If the middle digit of each of the following numbers is increased by 2 and then the digits of each number are written in reverse order, which number will be the fourth if arranged in descending order?
- Codes:**
- (a) Only I
(b) Only II and III
(c) Either only I or only II and III
(d) Only I and either II or III
(e) None of these
196. What is Sunita's rank from top in the class of 45 students?
- Codes:**
- (a) All I, II and III are necessary
(b) Only III
(c) Any two of the three
(d) Only I and II
(e) Question cannot be answered even with the information in all three statements
197. Who amongst Subodh, Neeraj, Tara, Meena and Anil is the first to take the lecture?
- Codes:**
- (a) Only I
(b) Only II and III
(c) Either only I or only II and III
(d) Only I and either II or III
(e) None of these
198. What is the code for 'rope' in a code language?
- Codes:**
- (a) Only I and II or II and III
(b) Only I and III
(c) Only II and III
(d) All I, II and III are necessary
(e) Question cannot be answered even with the information in all three statements
199. P is, in which direction with respect to Q?
- Codes:**
- (a) North-East of P
(b) South-West of P
(c) South-East of P
(d) West of Q
(e) North of P
200. If M is to the North of R who is to the West of Q, P is to the East of M.
- Codes:**
- (a) Only I and II are necessary
(b) Only III
(c) All I, II and III are necessary
(d) None of these
201. Sunita is exactly in the middle of Radha and Neeta.
- Codes:**
- (a) Only I
(b) Only II and III
(c) Either only I or only II and III
(d) Only I and either II or III
(e) None of these
202. Radha is 30th from the top and Neeta is 5th from the bottom.
- Codes:**
- (a) Only I and II are necessary
(b) Only III
(c) Any two of the three
(d) Only I and II
(e) Question cannot be answered even with the information in all three statements
203. Samir who is 15th from the bottom, is five ranks below Sunita.
- Codes:**
- (a) Only I and II are necessary
(b) Only III
(c) Any two of the three
(d) Only I and II
(e) Question cannot be answered even with the information in all three statements
204. Radha is 30th from the top and Neeta is 5th from the bottom.
- Codes:**
- (a) Only I and II are necessary
(b) Only III
(c) Any two of the three
(d) Only I and II
(e) Question cannot be answered even with the information in all three statements
205. Sunita is exactly in the middle of Radha and Neeta.
- Codes:**
- (a) Only I and II are necessary
(b) Only III
(c) Either only I or only II and III
(d) Only I and either II or III
(e) None of these

PASSAGE

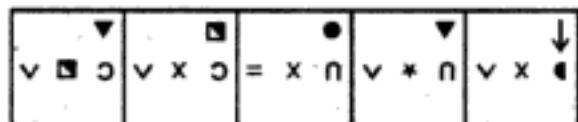
The opportunity spectrum available for Indian banks is wide today as never before. The economy is on a sound platform. GDP is growing at about seven per cent to eight per cent even if there is a failure in monsoon. There are policy measures which are being addressed especially on the infrastructure area, including airport infrastructure, The rural economy holds a huge untapped potential, being driven by fundamentalists, the services momentum is growing very strong, with services contributing 56 per cent of the economy, as opposed to a very small percentage a few years back. Clearly services have been the key driver in economic growth underwnt a phase of restructuring, is momentum of the country. The industrial sector, showing a consistent growth rate around ten per cent, has been the key driver in economic growth over the last seven years.

ANSWER FIGURES

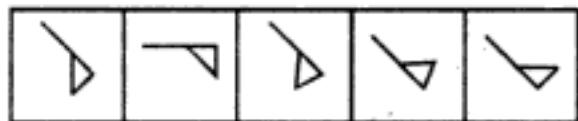
Directions (Q. 216-220): In each of these questions there are two sets of figures. The figures on the left are Problem Figures (four figures and one question-marked space) and those on the right are Answer Figures indicated by numbers (a), (b), (c), (d) and (e). A series is established if one of the five Answer Figures is placed at the "question-marked space". Question Figures form a series if they change from left to right according to some rule. All the five number of the five Answer Figures should be placed in the question-marked space in the order indicated by the numbers (a), (b), (c), (d) and (e).



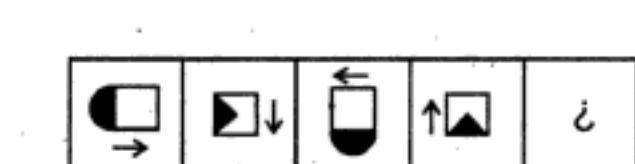
- (a) (b) (c) (d) (e)



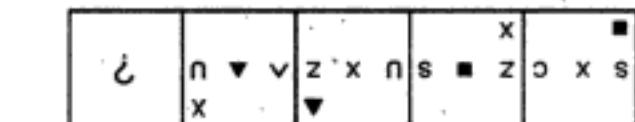
- (a) (b) (c) (d) (e)



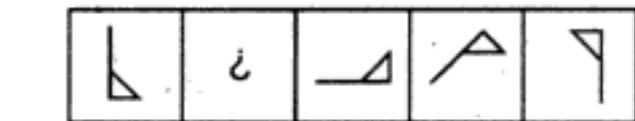
- (a) (b) (c) (d) (e)



218.



217.



216.

Courses of action :

III. Those foreigners who are caught smuggling banned narcotic substances should be given life term jail sentence to send a strong message to the criminals.

210. Statement: There is an alarming decrease in the number of females per thousand males in many states in the country as reported in recently held census.

Courses of action :

I. The Govt. should conduct another census to ascertain seriousness of the situation.

II. The Govt. should make an all out effort to nab all such people who are responsible for female foeticide.

III. The Govt. should start a campaign in the most affected states to highlighting the importance of having girl child in the family.

210. Statement: There is an alarming decrease in the number of females per thousand males in many states in the country as reported in recently held census.

Codes:

(a) Only I and II follow
(b) Only II and III follow
(c) Only III follows
(d) Only II and III follow (e) All follow

Courses of action :

I. The Govt. should allow the petroleum companies to fix the retail price as per the crude oil price in the international market.

II. The Govt. should absorb part of the increase in crude oil price by proportionately reducing tax burden on the retail price in the domestic market.

III. The Govt. should privatize the petroleum companies to get out of the tricky market situation.

Codes:

(a) Only I or III follow
(b) Only either I or III follow
(c) Only either I or III follow
(d) All follow
(e) None of these

208. Statement: Employees of all the Govt.

Courses of action :

Codes:

1. All those employees who remained absent from work should be suspended.

2. The Govt. should put on hold the process of privatization of Govt. run public sector organizations in the country went on a day's strike in the country against the process of privatization of Govt. run public sector undertakings which protest against the process of privatization of Govt. run public sector undertakings which in the country went on a day's strike against the process of privatization of Govt. run public sector undertakings which resulted into loss to exchequer worth crores of rupees.

3. The Govt. should declare complete ban on striking work by employees in all undertraking.

4. The Govt. should declare complete ban on privatization of Govt. run public sector undertakings form work by employees in all organizations in the country.

5. The Govt. should declare complete ban on privatization of Govt. run public sector undertakings form work by employees in all organizations in the country.

Codes:

(a) Only I follows
(b) Only II follows
(c) Only III follows
(d) Only II and III follow
(e) None of these

209. Statement: Many foreign tourists visiting India should stop giving tourist visas to African nationals with immediate effect.

Courses of action :

1. India should stop giving tourist visas to banned narcotics substances.

2. The airport authority and the enforcement agencies should be put on high alert to detect all such cases of smuggling.

3. The Indian airports should be put on high alert to detect all such cases of smuggling.

Codes:

(a) Only I follows
(b) Only II follows
(c) Only III follows
(d) Only II and III follow
(e) None of these

211-215. Directions (Q. 211-215): Below is given a passage followed by several possible inferences drawn upon its degree of truth or falsity.

Directions (Q. 211-215): Below is given a passage followed by several possible inferences drawn upon its degree of truth or falsity.

Codes:

(a) Only I follows
(b) Only II follows
(c) Only III follows
(d) Only II and III follows
(e) None of these

211. Statement: Below is given a passage followed by several possible inferences drawn upon its degree of truth or falsity.

Courses of action :

1. If the inference is "definitely true", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

2. If the inference is "probably true", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

3. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

4. If the inference is "probably false", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

5. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

Codes:

(a) Only I follows
(b) Only II follows
(c) Only III follows
(d) Only II and III follow
(e) None of these

212. Statement: Below is given a passage followed by several possible inferences drawn upon its degree of truth or falsity.

Courses of action :

1. If the inference is "definitely true", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

2. If the inference is "probably true", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

3. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

4. If the inference is "probably false", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

5. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

Codes:

(a) Only I follows
(b) Only II follows
(c) Only III follows
(d) Only II and III follow
(e) None of these

213. Statement: Below is given a passage followed by several possible inferences drawn upon its degree of truth or falsity.

Courses of action :

1. If the inference is "definitely true", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

2. If the inference is "probably true", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

3. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

4. If the inference is "probably false", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

5. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

Codes:

(a) Only I follows
(b) Only II follows
(c) Only III follows
(d) Only II and III follow
(e) None of these

214. Statement: Below is given a passage followed by several possible inferences drawn upon its degree of truth or falsity.

Courses of action :

1. If the inference is "definitely true", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

2. If the inference is "probably true", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

3. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

4. If the inference is "probably false", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

5. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

Codes:

(a) Only I follows
(b) Only II follows
(c) Only III follows
(d) Only II and III follow
(e) None of these

215. Statement: Below is given a passage followed by several possible inferences drawn upon its degree of truth or falsity.

Courses of action :

1. If the inference is "definitely true", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

2. If the inference is "probably true", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

3. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

4. If the inference is "probably false", though it cannot possibly be drawn from the facts given or it contradicts the given facts.

5. If the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

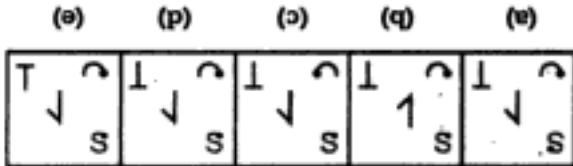
Codes:

(a) Only I follows
(b) Only II follows
(c) Only III follows
(d) Only II and III follow
(e) None of these

1. (d) 18. (a) 19. (a) 20. (a) 21. (d)
2. (e) The Tax-GDP ratio for 2003-04 was 15.1 percent and for 2004-05 was 16.0 percent.
22. (a) Venezuela's President Mr. Hugo Chavez was on a four-day visit (March 4-7, 2005).
23. (b) 24. (a) 25. (a) 26. (a)
27. (b) 28. (c)
29. (d) Visiting Pakistan President Gen. Pervez Musharraf watched the sixth and final ODI between India and Pakistan at the Ferozeshah Kotla stadium in New Delhi.
30. (e) It is the autobiography of world-renowned musician Ravil Shankar, who is expert of sitar.
31. (a) 32. (d) 33. (d) 34. (e)
32. (e) The Chinese Prime Minister Mr. Wen Jiabao, in his four-day visit (April 9-12, 2005) to India visited Bangalore.
33. (b) In the May 5, 2005 Parliamentary elections, the British Prime Minister Mr. Tony Blair secured a record third consecutive term in office for himself and his Labour Party for the first time in history.
34. (e) In the May 5, 2005 Parliamentary elections, Mr. Sam Pitroda, a close associate of the late Rajiv Gandhi will head the National Knowledge Commission constituted by Prime Minister Dr. Manmohan Singh. The Commission will advise the Prime Minister on issues concerning institutions of knowledge edge.
35. (e) The Chinese Prime Minister Mr. Wen Jiabao, in his four-day visit (April 9-12, 2005) to India visited Bangalore.
36. (e) In the May 5, 2005 Parliamentary elections, the British Prime Minister Mr. Tony Blair, secured a record third consecutive term in office for himself and his Labour Party for the first time in history.
37. (e) 38. (d)
38. (b) The Mittal Steel of L.N. Mittal group plans to set up an integrated steel plant of 5 million ton (mt) annual capacity in the State, with an investment of around Rs. 50 billion in Jharkhand State.
39. (b) The Mittal Steel of L.N. Mittal group plans to set up an integrated steel plant of 5 million ton (mt) annual capacity in the State, with an investment of around Rs. 50 billion in Jharkhand State.
40. (a) The dwindling economy of Turkey, democracy and abuse of Human Rights are the major issues that hinder Turkey's accession to the European Union.
41. (b) India became one of the first countries to export its world famous mangoes to China's potentially huge market under a bilateral agreement signed during the visit of the then Prime Minister Mr. Atal Bihari Vajpayee in 2003.
42. (e) 43. (e) 44. (a) 45. (e)
43. (a) 14. (a) 15. (c) 16. (b)
44. (a) 47. (b)
45. (a) 46. (a)
46. (a) 47. (b)
47. (d) The Foodgrains production increased from 212 million tonnes in 2004-05 to 206.4 million tonnes in 2005-06. Agriculture and allied sector grew by 1.1 percent during the period. It is aimed to bring more services in the Service Tax net.
48. (c) Defending champion Australia beat India clinch its fifth Women's Cricket World Cup title.
49. (e) In the Annual Monetary and Credit Policy announced on April 28, 2005, (i) no change in Bank Rate was made which stands at 6.0%; (ii) No change in Cash Reserve Ratio in Banks which stands at 5.0%; and (iii) Reserve Repo Rate was increased by 25 basis points to 5.0%.
50. (a) 8. (c)
51. (b) 4. (b) 5. (d)
52. (a) Venezuela's President Mr. Hugo Chavez was on a four-day visit (March 4-7, 2005).
53. (b) 24. (a) 25. (a) 26. (a)
54. (c) The Kyoto Protocol came into force on February 16, 2005. The treaty ratified by 141 nations seeks the industrial world to cut its greenhouse gas emission by 5.2% below 1990 level by 2012. The US and Australia are among the prominent countries who have not signed the treaty.
55. (e) In the Annual Monetary and Credit Policy announced on April 28, 2005, (i) no change in Bank Rate was made which stands at 6.0%; (ii) No change in Cash Reserve Ratio in Banks which stands at 5.0%; and (iii) Reserve Repo Rate was increased by 25 basis points to 5.0%.
56. (c) Defending champion Australia beat India clinch its fifth Women's Cricket World Cup title.
57. (a) 14. (a) 15. (c) 16. (b)
58. (c) Defending champion Australia beat India clinch its fifth Women's Cricket World Cup title.
59. (a) The Foodgrains production increased from 212 million tonnes in 2004-05 to 206.4 million tonnes in 2005-06. Agriculture and allied sector grew by 1.1 percent during the period. It is aimed to bring more services in the Service Tax net.
60. (a) 14. (a) 15. (c) 16. (b)
61. (a) 14. (a) 15. (c) 16. (b)
62. (a) 14. (a) 15. (c) 16. (b)
63. (a) 14. (a) 15. (c) 16. (b)
64. (a) 14. (a) 15. (c) 16. (b)
65. (a) 14. (a) 15. (c) 16. (b)
66. (a) 14. (a) 15. (c) 16. (b)
67. (a) 14. (a) 15. (c) 16. (b)
68. (a) 14. (a) 15. (c) 16. (b)
69. (a) 14. (a) 15. (c) 16. (b)
70. (a) 14. (a) 15. (c) 16. (b)
71. (a) 14. (a) 15. (c) 16. (b)
72. (a) 14. (a) 15. (c) 16. (b)
73. (a) 14. (a) 15. (c) 16. (b)
74. (a) 14. (a) 15. (c) 16. (b)
75. (a) 14. (a) 15. (c) 16. (b)
76. (a) 14. (a) 15. (c) 16. (b)
77. (a) 14. (a) 15. (c) 16. (b)
78. (a) 14. (a) 15. (c) 16. (b)
79. (a) 14. (a) 15. (c) 16. (b)
80. (a) 14. (a) 15. (c) 16. (b)
81. (a) 14. (a) 15. (c) 16. (b)
82. (a) 14. (a) 15. (c) 16. (b)
83. (a) 14. (a) 15. (c) 16. (b)
84. (a) 14. (a) 15. (c) 16. (b)
85. (a) 14. (a) 15. (c) 16. (b)
86. (a) 14. (a) 15. (c) 16. (b)
87. (a) 14. (a) 15. (c) 16. (b)
88. (a) 14. (a) 15. (c) 16. (b)
89. (a) 14. (a) 15. (c) 16. (b)
90. (a) 14. (a) 15. (c) 16. (b)
91. (a) 14. (a) 15. (c) 16. (b)
92. (a) 14. (a) 15. (c) 16. (b)
93. (a) 14. (a) 15. (c) 16. (b)
94. (a) 14. (a) 15. (c) 16. (b)
95. (a) 14. (a) 15. (c) 16. (b)
96. (a) 14. (a) 15. (c) 16. (b)
97. (a) 14. (a) 15. (c) 16. (b)
98. (a) 14. (a) 15. (c) 16. (b)
99. (a) 14. (a) 15. (c) 16. (b)
100. (a) 14. (a) 15. (c) 16. (b)

GENERAL AWARENESS

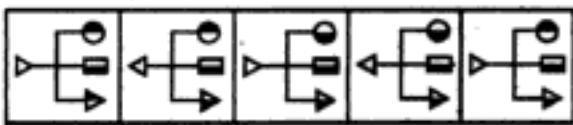
ANSWERS



- (a) (e) (b) (d) (c)



- (a) (e) (b) (d) (c)



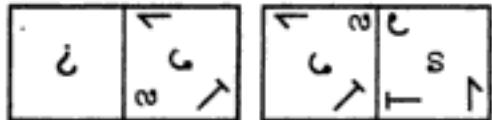
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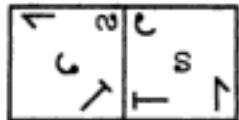
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- (a) (e) (b) (d) (c)



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225.

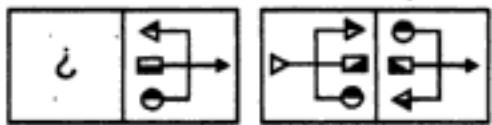


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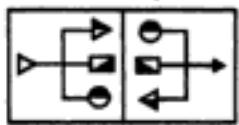


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224.

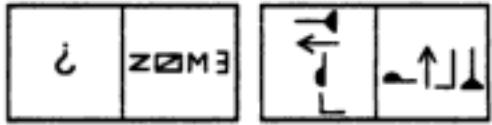


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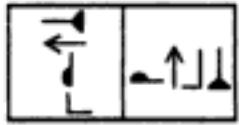


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223.

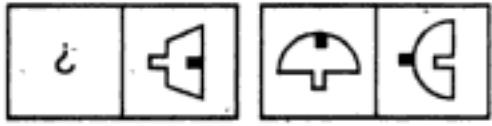


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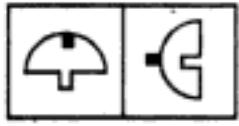


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222.



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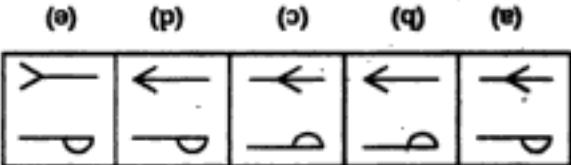
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221.

ANSWER FIGURES

PROBLEM FIGURES

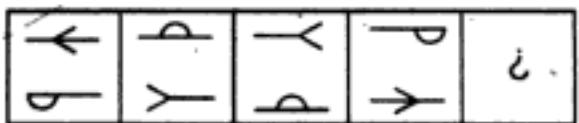
Directions (Q. 221-225): The second figure in the first unit of the Problem Figures bears certain relationship to the first figure in the same unit. Similarly one of the figures in the Answer Figures bears the same relationship to the first figure in the second unit. Similarly one of the figures in the Answer Figures bears certain relationship to the first figure in the second unit. You are therefore to locate the figure which would fit in the question mark.



- (a) (b) (c) (d) (e)

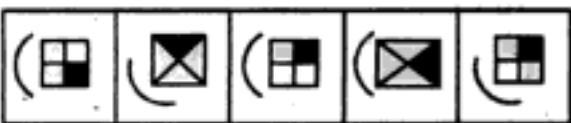
- (a) (b) (c) (d) (e)

- (a) (b) (c) (d) (e)



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220.



?

219.

116. (a) $4x + 2y = 51, 15y + 13x = 221$	$x = 9.5, y = 6.5; x > y$	$y = 92567 - 92551 = 16$	$x = 28 - y = 28 - 16 = 12; x < y$	$118. (b) 8x^2 + 3x - 38 = 0$	$\text{Also } x = -28 - y = -28 - 16 = -44$	$119. (a) x^2 - 20x + 91 = 0$	$\Rightarrow y = 2, \frac{17}{6}; x \leq y$	$120. (b) 6R, 5G, 8B$	$\text{Non-green balls} = 6 + 8 = 14$	$121. (d) S.I. = 35500 \times \frac{15}{100} \times 2 = \text{Rs. 10650}$	$C.I. \text{ for 3 years} = 46150 \left(\left(1 + \frac{1}{100} \right)^3 - 1 \right)$	$A = 35500 + 10650 = \text{Rs. 46150}$	$125. (c) \text{Boys} = \frac{5}{2} \times 2500 = 1000 \quad \text{Girls} = 1500$	$\text{For boys n (cricket only)}$	$\text{For boys n (hockey, tennis and carrom only)}$	$122. (a) 12 \times 36 M = 18 \times 60 W \text{ or } 2 M = 5W$	$= 18 \times 60 W \text{ can do same in 1 day}$	$122. (a) 12 \times 36 \text{ men can do a work in one day}$	$\text{or } 12 \times 36 M = 18 \times 60 W \text{ or } 2 M = 5W$	$\therefore 8M = 20W$		
$18W \text{ can do a work in 60 days}$	$40W \text{ can do a work in } \frac{60 \times 18}{40} = 27 \text{ days}$	$y = 92567 - 92551 = 16$	$x = 28 - y = 28 - 16 = 12; x < y$	$117. (c) x + y = \pm \sqrt{784} = \pm 28.$	$117. (c) x + y = \pm \sqrt{784} = \pm 28.$	$118. (b) 8x^2 + 3x - 38 = 0$	$\Rightarrow y = 2, \frac{17}{6}; x \leq y$	$119. (a) x^2 - 20x + 91 = 0$	$\text{Also } x = -28 - y = -28 - 16 = -44$	$120. (b) 6R, 5G, 8B$	$\text{Non-green balls} = 6 + 8 = 14$	$121. (d) S.I. = 35500 \times \frac{15}{100} \times 2 = \text{Rs. 10650}$	$C.I. \text{ for 3 years} = 46150 \left(\left(1 + \frac{1}{100} \right)^3 - 1 \right)$	$A = 35500 + 10650 = \text{Rs. 46150}$	$125. (c) \text{Boys} = \frac{5}{2} \times 2500 = 1000 \quad \text{Girls} = 1500$	$\text{For boys n (cricket only)}$	$\text{For boys n (hockey, tennis and carrom only)}$	$122. (a) 12 \times 36 M = 18 \times 60 W \text{ or } 2 M = 5W$	$= 18 \times 60 W \text{ can do same in 1 day}$	$122. (a) 12 \times 36 \text{ men can do a work in one day}$	$\text{or } 12 \times 36 M = 18 \times 60 W \text{ or } 2 M = 5W$	$\therefore 8M = 20W$
$8M + 20W = 20 + 20 = 40W$	$x = 9.5, y = 6.5; x > y$	$y = 92567 - 92551 = 16$	$x = 28 - y = 28 - 16 = 12; x < y$	$117. (c) x + y = \pm \sqrt{784} = \pm 28.$	$117. (c) x + y = \pm \sqrt{784} = \pm 28.$	$118. (b) 8x^2 + 3x - 38 = 0$	$\text{Also } x = -28 - y = -28 - 16 = -44$	$119. (a) x^2 - 20x + 91 = 0$	$\Rightarrow y = 2, \frac{17}{6}; x \leq y$	$120. (b) 6R, 5G, 8B$	$\text{Non-green balls} = 6 + 8 = 14$	$121. (d) S.I. = 35500 \times \frac{15}{100} \times 2 = \text{Rs. 10650}$	$C.I. \text{ for 3 years} = 46150 \left(\left(1 + \frac{1}{100} \right)^3 - 1 \right)$	$A = 35500 + 10650 = \text{Rs. 46150}$	$125. (c) \text{Boys} = \frac{5}{2} \times 2500 = 1000 \quad \text{Girls} = 1500$	$\text{For boys n (cricket only)}$	$\text{For boys n (hockey, tennis and carrom only)}$	$122. (a) 12 \times 36 M = 18 \times 60 W \text{ or } 2 M = 5W$	$= 18 \times 60 W \text{ can do same in 1 day}$	$122. (a) 12 \times 36 \text{ men can do a work in one day}$	$\text{or } 12 \times 36 M = 18 \times 60 W \text{ or } 2 M = 5W$	$\therefore 8M = 20W$
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48. (c) The Air-India approved the purchase of 500 air crafts costing Rs. 30,000 crore (US \$ 6 billion) on April 6, 2005.	49. (b)	50. (e) The Indian Space Research Organisation (ISRO) plans to launch in August 2005 home (DTH) satellite television services.
51. (a) 52. (d) 53. (b) 54. (a) 55. (a)	56. (b) 57. (c) 58. (c) 59. (a) 60. (e)	61. (a) 62. (c) 63. (b) 64. (a) 65. (d)
66. (b) 67. (b) 68. (e) 69. (e) 70. (d)	71. (a) 72. (d) 73. (c) 74. (a) 75. (e)	76. (b) 77. (d) 78. (e) 79. (c) 80. (a)
85. (b) 'Indicates' should be indicate, 84. (d) 'athing' should be 'things', 83. (a) 'becoming', should be 'became', 82. (b) 'entered', should be 'entering',	86. (e) 87. (c) 88. (a) 89. (b) 90. (d)	91. (b) 92. (d) 93. (d) 94. (e) 95. (c)
96. (a) 97. (a) 98. (b) 99. (e) 100. (c)	101. (c) 102. (a) 103. (b) 104. (d) 105. (a)	106. (c) 107. (d) 108. (b) 109. (a) 110. (e)
= $(63 \times 7^{15}) \times 9^{15} = (7 \times 9)^{15} = 63^x$ = $(63)^x 7^{23+2 \times 47+34} \times 9^{34+2585}$ 113. (b) By multiplying the terms by 13, 11, 7, 5, 3 to get the next term 145 \times 13 = 1885 = a, 1885 \times 11 = 20735 = b, 20735 \times 7 = 145145 = c 114. (a) 582 574 601 537 662 446 By add -2 ³ , 3 ³ , -4 ³ , 5 ³ , -6 ³ and so on to 30 \times 5 - 30 = 120, 120 \times 4 - 20 = 460, 460 \times 3 - 12 = 1368, 1368 \times 2 - 6 = 2730 196 + 3 ³ = 223 = b, 204 - 2 ³ = 196 = a, 223 - 4 ³ = 159 = c, 159 + 5 ³ = 284 = d 6x ² + 13x + 5 = 0 $\Leftrightarrow (2x + 1)(3x + 5) = 0$ $\Leftrightarrow x = -\frac{1}{2}, -\frac{5}{3}$ 9y ² + 22y + 8 = 0 $\Leftrightarrow (9y + 4)(y + 2) = 0$ $\Leftrightarrow y = -2, -\frac{4}{9}$	112. (e) 154 462 231 693 346.5 1039.5 940 \times 3 - 12 = 2808 = d 240 \times 4 - 20 = 940 = c, 54 \times 5 - 30 = 240 = b, 16 \times 6 - 42 = 54 = a, 1368 \times 2 - 6 = 2730 460 \times 3 - 12 = 1368, 120 \times 4 - 20 = 460, 30 \times 5 - 30 = 120, get the next term By add -2 ³ , 3 ³ , -4 ³ , 5 ³ , -6 ³ and so on to 114. (a) 582 574 601 537 662 446 115. (e) 6x ² + 13x + 5 = 0 $\Leftrightarrow (2x + 1)(3x + 5) = 0$ $\Leftrightarrow x = -\frac{1}{2}, -\frac{5}{3}$ 154 \times 3 = 462, $\frac{462}{2} = 231,$ 231 \times 3 = 693, $\frac{693}{2} = 346.5$	and so on

QUANTITATIVE APTITUDE

81. (b) 'celebrates' should be 'celebrated',
82. (b) 'entered', should be 'entering',
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84. (d) 'athing' should be 'things',
85. (b) 'Indicates' should be indicate,
86. (e) 87. (c) 88. (a) 89. (b) 90. (d)
414 \times 3 = 1242 = c, $\frac{1242}{2} = 621 = d,$
621 \times 3 = 1863 = e
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to get the next term 145 \times 13 = 1885 = a,
1885 \times 11 = 20735 = b,
20735 \times 7 = 145145 = c
114. (a) 582 574 601 537 662 446
By add -2³, 3³, -4³, 5³, -6³ and so on to
115. (e) 6x² + 13x + 5 = 0
 $\Leftrightarrow (2x + 1)(3x + 5) = 0$
 $\Leftrightarrow x = -\frac{1}{2}, -\frac{5}{3}$
154 \times 3 = 462, $\frac{462}{2} = 231,$
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ENGLISH LANGUAGE

48. (c) The Air-India approved the purchase of 500 air crafts costing Rs. 30,000 crore (US \$ 6 billion) on April 6, 2005.
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96. (a) 97. (a) 98. (b) 99. (e) 100. (c)

(Q. 161-165):	<p>Giris : Q, N and F</p> <p>161. (c) F is studying Civil Engineering</p> <p>162. (b) E, N and Q are girls.</p> <p>163. (e) R studies IT.</p> <p>164. (a) P is studying Journalism</p> <p>165. (d) The combination Blue - T - Finance is correct</p> <p>(Q. 166-170):</p> <p>(i) A \$ B \Rightarrow A \neq B, i.e., A \geq B</p> <p>(ii) A # B \Rightarrow A \neq B and A \neq B,</p> <p>i.e., A < B.</p> <p>(iii) A @ B \Rightarrow A \neq B and A $\#$ B</p> <p>i.e., A > B.</p> <p>(iv) A % B \Rightarrow A \neq B, i.e., A \leq B</p> <p>(v) A * B \Rightarrow A \neq B, i.e., A \leq B</p> <p>i.e., A = B.</p> <p>166. (c) Statements</p> <p>D * Q \Leftrightarrow D = Q</p> <p>Q @ L \Leftrightarrow Q > L</p> <p>L \$ B \Leftrightarrow L \geq B</p> <p>B # G \Rightarrow B < G</p> <p>Therefore, D = Q $>$ L \geq B < G</p> <p>Conclusions</p> <p>1. D @ B \Rightarrow D > B : True</p> <p>II. B * D \Rightarrow B = D : Not True</p> <p>III. G @ L \Leftrightarrow G > L : Not True</p> <p>IV. (e) Statements</p> <p>Y # K \Rightarrow Y < K</p> <p>Z @ Y \Leftrightarrow Z > Y</p> <p>167. (e)</p>																																				
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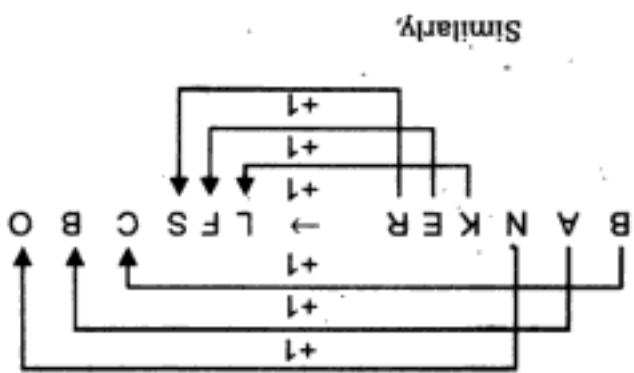
153. (a)

Meaningful word \Rightarrow P O R T152. (c) C O M P U T E R
1 2 3 4 5 6 7 8

It is clear that the code for "he" is "nik".

ma la se \rightarrow she has gone(de) lit pa \rightarrow come here fast151. (a) nik ma (de) \rightarrow he has come

TEST OF REASONING



148. (c) $658125 \times \frac{100}{135} = 32500$

149. (d)
150. (d)

126. (c) Req'd %age = $\frac{257 + 100}{257 + 100} \times 100 = 142.8$

$= 257 + 375 + 100 = 732$

Students who play more than one game

$= 1500 - (375 + 350 + 375 + 300) = 100$

Girls who play Football and Hockey only

$= 1500 - (375 + 350 + 375 + 300) = 100$

145. (c) $1.66 \times 100000 \times \frac{135}{100} = 224100$

144. (a)

143. (e) Ratio = $\frac{96}{59}$

140. (d) 41. (b) 42. (c)

139. (a) $\frac{2750}{2500+x} = \frac{11}{13} \therefore x = 750$

Girls who play only Badminton

$= \frac{175}{100} \times 200 = 350$

Girls who play only Cricket

$= \frac{25}{100} \times 1500 = 375$

Girls who play TT, Badminton and Carrom

$= \frac{12}{75} \times 1500 = 300$

135. (b) 136. (c)

137. (e) Answer is 4 : 3

138. (d)

130. (a) 131. (c) 132. (b) 133. (e) 134. (d)

129. (e) $257 + 375 = 632$

$+ (375 + 350 + 100) = 1650$

128. (d) Req'd no. = $(200 + 268 + 257)$

For Girls

$= n(Ch) = 1000 - (200 + 257 + 268) = 275$

No. of boys who play only chess

$n(F) = \frac{26.8}{100} \times 1000 = 268$

127. (e) $\frac{375}{275} = \frac{11}{15}$

$$\text{Total number of students} = 20 + 22 - 1 = 41$$



193. (c) Sudhakar is fifteenth from the left end

M	A	R	E	D
↑	↑	↑	↑	↑
#	*	*	*	@

Therefore,

M	O	R	E
↑	↑	↑	↑
%	#	%	#

R	E	D
↑	↑	↑
%	#	\$

A	R	E
↑	↑	↑
?	?	?

$$\text{or, } ? = 32 - 17 + 3 = 18$$

$$\text{or, } ? = 2 \times 16 - 17 + 3$$

$$\text{or, } ? = 38 + 19 \times 16 - 17 + 3$$

$$38 + 19 - 16 \times 17 + 3 = ?$$

+	=	x	=	-
-	=	/	=	+

191. (e)

Position.

There are 10 students between Radha and Neeta. So, there would not be exact middle position.



From statement II and II

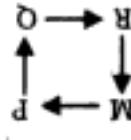
*. Rank of Sunita = 36th

$$= 45 - 15 + 1 = 31\text{st}$$

Rank of Samir from the top

190. (a) From statement I

P is in north direction with respect to Q.



From statements I and II

176. (a)

177. (a)

178. (a)

179. (a)

180. (b)

181. (b) We know that any action has some effects but it is difficult to assume that the government may favourably consider the views of the employees. For similar reason, assumption III is also not implicit.

182. (a) The advertisement was given to attract the people. But this does not imply that offering discount is the best way to attract people.

183. (b) Only assumption II is implicit in the statement.

184. (b) Only assumption II is implicit in the statement.

185. (d) Assumptions I and II are implicit in the statement.

186. (b) From Statement I
Raju is the son of Pramila
Pramilla is daughter-in-law of Manohar
Tara is somewhere after Anil.
Therefore, Anil is the first to take the lecture.

187. (b) From Statement II
Anil > Subodh > Meena, Neera
Therefore, Raju is grandson of Manohar
From Statement II
Tara is somewhere after Anil.
Therefore, Anil is the first to take the lecture.

188. (a) use the rope → nik ta - I
rope is straight → pe da ta - II
Now, rope is straight → pe da ta - II
always use rope → ma re ta - III

189. (b) From Statement II
M → P
R → Q
M

190. (c) Sudhakar is fifteenth from the left end
Total number of students = 20 + 22 - 1 = 41
22nd

Conclusions
I. $G @ T \Leftarrow G > K$: Not True
II. $G * T \Leftarrow G = T$: Not True
III. $G @ T \Leftarrow G > T$: True
 $K \% M \Leftarrow K \leq M$
Therefore,
III. $Z @ M \Leftarrow Z > M$: Not true
II. $Y @ T \Leftarrow Y > T$: Not true
III. $Z \# K \Leftarrow Z < K$: Not true
168. (a) Statements
 $P \# M \Leftarrow P < M$
 $M \% R \Leftarrow M \leq R$
 $R * T \Leftarrow R = T$
 $T \# L \Leftarrow T < L$
Therefore,
 $P < M \leq R = T < L$
Conclusions
I. $P \# R \Leftarrow P < R$: True
II. $P * R \Leftarrow P = R$: Not true
III. $M \% L \Leftarrow M \leq L$: Not true
169. (a) Statements
 $F @ H \Leftarrow F > H$
 $M \% H \Leftarrow M \leq H$
 $G > H \Leftarrow G \geq H$
Therefore,
 $G * M \Leftarrow G = M$
 $M \$ R \Leftarrow M \leq R$
 $G > M \Leftarrow G \geq M$
Conclusions
I. $F \$ R \Leftarrow F \geq R$: Not True
II. $F @ R \Leftarrow F > R$: True
III. $H \$ G \Leftarrow H \geq G$: True
170. (d) Statements
 $K @ T \Leftarrow K > T$
 $T \# D \Leftarrow T < D$
 $D * F \Leftarrow D = F$
 $F \% G \Leftarrow F \leq G$
Therefore,
 $K > T \Leftarrow D = F \leq G$

Conclusions
I. $210 - 125 = 85$ [Condition (iv)]
 $85 \times 2 = 170$ [Condition (iii)]
 $174. (a) 9 + 121 = 130$ [Condition (ii)]
 $130 \div 10 = 13$ [Condition (iii)]
 $\therefore m = 13$
 $13 \times 12 = 156$ [Condition (iii)]
 $156 \div 26 = 6$ [Condition (iii)]
 $175. (d) 18 \times 7 = 126$ [Condition (iii)]
 $126 \div 6 = 21$ [Condition (iii)]
 $Now, 140 - 85 = 55$ [Condition (iv)]
 $55 + 49 = 104$ [Condition (i)]
 $Sum = 104 + 21 = 125$

Conclusions
I. $35 \times 6 = 210$ [Condition (iv)]
 $173. (c) 50 - 15 = 35$ [Condition (iv)]
 $Product = 2 \times 56 = 112$
 $7 \times 8 = 56$ [Condition (iii)]
 $\frac{98}{14} = 7$ [Condition (iii)]
 $17 + 81 = 98$ [Condition (i)]
 $Now,$
 $35 \times 6 = 210$ [Condition (iv)]
 $210 - 125 = 85$ [Condition (iv)]
 $Now,$

Conclusions
I. $P \# R \Leftarrow P < R$: True
II. $P * R \Leftarrow P = R$: Not true
III. $M \% L \Leftarrow M \leq L$: Not true
172. (e) $24 \times 3 = 72$ [Condition (iii)]
 $\frac{72}{18} = 4$ [Condition (iii)]
 $Now, 3 \times 56 = 168$ [Condition (ii)]
 $31 + 25 = 56$ [Condition (ii)]
 $\frac{168}{28} = 6$ [Condition (iii)]
 $Now, 3 \times 56 = 168$ [Condition (ii)]
 $171. (b) \frac{248}{8} = 31$ [Condition (iii)]
 $172. (e) 24 \times 3 = 72$ [Condition (iii)]
 $\frac{72}{18} = 4$ [Condition (iii)]
 $Now, 3 \times 56 = 168$ [Condition (ii)]
 $31 + 25 = 56$ [Condition (ii)]
 $\frac{168}{28} = 6$ [Condition (iii)]
 $Now, 3 \times 56 = 168$ [Condition (ii)]
 $173. (a) 50 - 15 = 35$ [Condition (iv)]
 $Product = 2 \times 56 = 112$
 $7 \times 8 = 56$ [Condition (iii)]
 $\frac{98}{14} = 7$ [Condition (iii)]
 $17 + 81 = 98$ [Condition (i)]
 $Now,$
 $35 \times 6 = 210$ [Condition (iv)]
 $174. (a) 9 + 121 = 130$ [Condition (ii)]
 $130 \div 10 = 13$ [Condition (iii)]
 $\therefore m = 13$
 $13 \times 12 = 156$ [Condition (iii)]
 $156 \div 26 = 6$ [Condition (iii)]
 $175. (d) 18 \times 7 = 126$ [Condition (iii)]
 $126 \div 6 = 21$ [Condition (iii)]
 $Now, 140 - 85 = 55$ [Condition (iv)]
 $55 + 49 = 104$ [Condition (i)]
 $Sum = 104 + 21 = 125$

194. (b) The letters of the word RESIDENT have been reversed.

T	N	E	D	I	S	E	R
↓	↓	↓	↓	↓	↓	↓	↓
7	9	2	3	6	4	2	5

195. (a) $236 \Rightarrow 652$

$843 \Rightarrow 368$

$566 \Rightarrow 685$

$358 \Rightarrow 873$

$478 \Rightarrow 894$

Descending order

$894 > 873 > 685 > \boxed{652} > 368$

4th

$652 \Rightarrow 236$

196. (e) $22 \$ 15 \% 8$

or, $22 + 15 \times 8 = 142$

Now,

$142 @ 2 \star 6$

or, $\frac{142+2}{6} = 24$

197. (c) $24 \# 5 @ 150$

or, $150 - 24 \times 5 = 30$

Now, $30 @ 18 \star 6$

or, $\frac{30+18}{16} = 3$

198. (b) $60 ! 36 \bullet 15$

or, $\frac{36 \times 15}{60} = 9$

Now, $2 \# 3 @ 9$

or, $9 - 2 \times 3 = 3$

199. (a) $17 \# '4 @ 88$

or, $88 - 17 \times 4 = 20$

Now, $5 ! 20 \bullet 4$

or, $\frac{20 \times 4}{5} = 16$

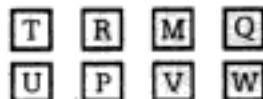
200. (d) $32 \$ 8 \% 5$

or, $32 + 8 \times 5 = 72$

Now, $72 @ 12 \star 7$

or, $\frac{72+12}{7} = \frac{84}{7} = 12$

(Q. 201-205) : Sitting arrangement



201. (e) T is to the immediate right of R.

202. (a) M and V are sitting opposite each other.

203. (c) P is far away from Q

204. (b) P is to immediate left of V.

205. (d) P is sitting opposite to R.

206. (b) Only courses of action I and II seem to be appropriate.

These two courses of action may improve the conditions of roads.

207. (e) Only course of action II seems to be appropriate.

208. (e) None of the courses of action is appropriate.

209. (c) Only course of action III is appropriate.

210. (d)

211. (e) The inference is definitely false. Consider the following line of the passage :

"Clearly services have been the key driver in economic momentum of the country."

212. (c) There is no information in the passage regarding this inference.

213. (a) Consider the following line of the passage ; "GDP is growing at about seven, per cent to eight per cent even if there is a failure in monsoon".

214. (e) Consider the following line of the passage : "The industrial sector, which underwent a phase of restructuring, is showing a consistent growth rate around ten per cent."

215. (b) On the basis of information given in the passage, the inference seems probably true.
216. (c) In each subsequent figure the design is inverted laterally after rotating through 45° clockwise.
217. (a) From Problem Figure (a) to (b) the left and right designs interchange positions and one of the designs is replaced with a new design. Similarly, the middle design and the lower design interchange positions. Similar changes occur in the subsequent figures.
218. (b) As far as design is concerned the problem is based on the pattern (a) = (c) = (e) and (b) = (d). After every two figures the main design rotates through 90° clockwise and the arrow moves one step clockwise and is inverted.
219. (c) In each subsequent figure the curve moves in clockwise direction while the main design rotates through 45° anticlockwise and the shaded portion also moves anticlockwise alternately.
220. (a) From Problem Figure (c) to (d) both the designs interchange positions and the direction of arrow is reversed at its place. Similar changes will occur from Problem Figure (a) to (b).
221. (b) From first figure to second figure the main design rotates through 90° clockwise and the outer design comes inside the main design and vice versa.
222. (c) From first figure to second figure the plane of designs rotates through 90° and the second last design moves to top and rotates through 90° clockwise while other three designs rotate through 90° anticlockwise.
223. (d) From first figure to second figure the main design is laterally inverted and the shaded triangle becomes white.
224. (b) From first figure to second figure the outer most design becomes the innermost design and gets shaded while innermost design becomes the middle design. The middle design becomes the outermost design after rotating through 45° clockwise.
225. (d) From first figure to second figure the design (\rightarrow) rotates through 90° and are inverted laterally. Again the designs change position in a set order.



PROBATIONARY OFFICERS' EXAM. (STATE BANK OF INDIA)

Original Question Paper – Exam. Held on 09-01-2005

REASONING

Directions (Qns. 1-5) : In each of the questions below are given three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

1. Statements:

All trains are rivers. Some rivers are houses. All houses are lakes.

Conclusions :

- I. Some lakes are trains.
 - II. Some houses are trains.
 - III. No train is lake.
 - IV. Some houses are rivers.
- (1) None follows
(2) Only IV follows
(3) Only either I or III follows
(4) Only either I or III and IV follow
(5) All follow

2. Statements :

Some tigers are goats. No goat is rat. All dogs are rats.

Conclusions :

- I. No tiger is rat.
 - II. No dog is goat.
 - III. Some dogs are tigers.
 - IV. Some rats are tigers.
- (1) Only either I or IV and II follow
(2) Only either I or IV and III follow
(3) Only II follows
(4) Only either I or IV follows
(5) None follows

3. Statements :

Some trees are flowers. Some roads are flowers. All roads are vehicles.

Conclusions :

- I. Some vehicles are trees.
- II. Some vehicles are flowers.

III. Some roads are trees.

IV. All vehicles are roads.

- (1) None follows
(2) Only I and II follow
(3) Only II follows
(4) Only I, III and IV follow
(5) All follow

4. Statements :

All jungles are buses. All books are buses. All fruits are books.

Conclusions :

- I. Some fruits are jungles.
 - II. Some buses are books.
 - III. Some buses are jungles.
 - IV. All fruits are buses.
- (1) All follow
(2) Only II, III and IV follow
(3) Only I, II and III follow
(4) Only I, II and IV follow
(5) None of these

5. Statements :

Some pens are rooms. Some rooms are cats. Some cats are windows.

Conclusions:

- I. Some windows are rooms.
 - II. Some cats are pens.
 - III. Some pens are windows.
 - IV. Some pens are cats.
- (1) All follow
(2) Only I follows
(3) Only III follows
(4) Only II follows
(5) None follows

Directions (Qns. 6-10): In each question below are given two statements (A) and (B). These statements may be either independent causes or may be effects of independent causes. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choices correctly depicts the relationship between these two statements.

Mark answer (1) if statement (A) is the cause and statement (B) is its effect.

Mark answer (2) if statement (B) is the cause and statement (A) is its effect.

Mark answer (3) if both the statements (A) and (B) are independent causes.

Mark answer (4) if both the statements (A) and (B) are effects of independent causes.

Mark answer (5) if both statements are effects of some common cause.

6. A. The committee appointed by the Government on the fee structure of the professional courses has drastically reduced the fees of various courses in comparison to those charged in the last year.
B. The parents of aspiring students seeking admission to professional courses had launched a severe agitation protesting against the high fees charged by the professional institutes and the admission process was delayed considerably.
7. A. The farmers have decided against selling their Kharif crops to the Government agencies.
B. The Government has reduced the procurement price of Kharif crops starting from last month to the next six months.
8. A. The Reserve Bank of India has recently put restrictions on few small banks in the country.
B. The small banks in the private and cooperative sector in India are not in a position to withstand the competitions of the bigger in the public sector.
9. A. The performance of Indian sports persons in the recently held Olympics could not reach the level of expectation the country had on them.
B. The performance of Indian sports persons in the last Asian games was far better than any previous games.
10. A. Large number of people living in the low lying areas have been evacuated during the last few days to safer places.
B. The Government has rushed in relief supplies to the people living in the affected areas.

Directions (Qns. 11-15): Study the following alphabet-symbol-digit sequence and answer the questions given below it:

$GN = 8L @ CR \beta \uparrow 25H \# 7EJ\$4 + VY36?$

F 9 * M

11. How many such symbols are there in the above arrangement each of which is either immediately followed by a letter or immediately preceded by a number?

- (1) Nil
- (2) Three
- (3) Four
- (4) Five
- (5) None of these

12. C@RL is to 36Y? In the same way as H2↑C is to

- | | |
|-------------------|----------|
| (1) J4+3 | (2) E4+3 |
| (3) JS+3 | (4) J4+6 |
| (5) None of these | |

13. Four of the following five are alike in a certain way based on their position in the above arrangement and hence form a group. Which is the one that does not belong to the group?

- | | |
|----------|----------|
| (1) @8@R | (2) 7HSJ |
| (3) 2@#H | (4) 4J3Y |
| (5) ?3*9 | |

14. How many such letters are there in the above arrangement each of which is either immediately preceded by a number or immediately followed by a symbol?

- | | |
|-------------------|----------|
| (1) Three | (2) Two |
| (3) Five | (4) Four |
| (5) None of these | |

15. How many such numbers are there in the above arrangement each of which is either immediately preceded by a letter immediately followed by a symbol?

- | | |
|-------------------|-----------|
| (1) Five | (2) Three |
| (3) Two | (4) Four |
| (5) None of these | |

Directions (Qns. 16-20): Study the following information carefully and answer the questions given below:

Following are the alternative eligibility criteria for short-listing candidates for interview for entry level job in a bank:

- (i) The candidate should have passed SSC with atleast 80% marks.
- (ii) The candidate should have passed HSC with atleast 75% marks.
- (iii) The candidate should be an Arts/Science/Commerce graduate with atleast 60% marks.
- (iv) The candidate should be an engineer with atleast 55% marks.
- (v) The candidate should be a post-graduate in any discipline with atleast 50% marks.

Any candidate can be eligible under any one or more of the above criteria depending upon their academic pursuits.

In each of the following questions, details of one candidate is given. You have to find out under which of the above condition(s) the candidate is eligible and mark your answer accordingly based on the alternatives provided after each question. You are not to assume anything other than the information provided in each of the above questions.

16. Sunil Arora has secured 75% marks in SSC. He has completed his B.Com. with 65% marks after completing his Higher Secondary in Commerce. He has now enrolled in the Master's Degree of Commerce.

- (1) Eligible under (i) only
- (2) Eligible under (ii) only
- (3) Eligible under (iii) only
- (4) Eligible under (i) and (iii) only
- (5) None of these

17. Usha Natarajan has completed M.A. with 50% marks after passing B.A. exam with 60% marks. She had secured 75% marks in SSC and 80% marks in HSC.

- (1) Eligible under (i), (ii), (iii) and (iv) only
- (2) Eligible under (i), (ii) and (iv) only
- (3) Eligible under (ii), (iii) and (iv) only
- (4) Eligible under (iii) and (iv) Only
- (5) None of these

18. Mohan Srivastava is a Mechanical Engineer. He has secured 60% marks in his final degree exam. He has secured 65% marks in HSC. He has secured 55% marks in his post-graduation in Mechanical Engineering.

- (1) Eligible under (ii), (iv) and (v) only
- (2) Eligible under (iv) and (v) only
- (3) Eligible under (iii), (iv) and (v) only
- (4) Eligible under (i) (iv) and (v) only
- (5) None of these

19. Subhash Saxena has secured 85% marks in graduation in Science. He has also secured 65% and 75% marks in HSC and Post-graduation respectively. He is presently pursuing his second post-graduation degree.

- (1) Eligible under (ii), (iii) and (iv) only
- (2) Eligible under (iv) and (v) only
- (3) Eligible under (ii), (iv) and (v) only
- (4) Eligible under (iii) and (v) only .
- (5) None of these

20. Aruna Basak is a post-graduate in Physics. She has secured 80% marks in SSC. She has also secured 70% marks both in HSC and graduation.

- (1) Eligible under (i), (ii) and (iii) only
- (2) Eligible under (ii) and (iii) only
- (3) Eligible under (i) and (iii) only
- (4) Eligible under (iii) only
- (5) None of these

21. Four of the following five pairs are alike in a certain way and hence form a group. Which one does not belong to that group ?

- (1) PARENT : RPBTEO
- (2) MOSTLY : SMPYTM
- (3) SIMPLE : MSJEPM
- (4) MOTHER : TMPRHD
- (5) SUNDAY : NSVYDB

22. Four of the following five pairs of alphas and numerals have same relationship between their elements as in the case of the pair MATURELY : 72415863 and hence form a group. Which one does not belong to the group ?

- (1) RAMTE : 52748
- (2) LETRA : 68452
- (3) TYUALE : 431268
- (4) MERUTA : 785142
- (5) EMUTRA : 671452

Directions (Qns. 23-25) : Given an input, a machine generates pass codes for the six batches each day as follows :

Input: These icons were taken out from the sea.

Pass Codes :

Batch I : from sea the out taken were icons these

Batch II : from icons these were taken out the sea

Batch III: from icons out sea the taken were these

Batch IV : from icons out sea these were taken the, and so on.

First batch starts at 10.00 a.m. and each batch is for one hour. There is a rest period of one hour after the end of the fourth batch.

- 23. The pass code for the first batch on a day was 'he so used to sell the surplus items'. What was the input on that day ?**
- he items surplus the sell to used so he
 - so used to sell the surplus items he
 - items surplus the sell to used so he
 - cannot be determined
 - None of these
- 24. If the pass code for the batch at 1.00 p.m. on a day was 'back go here people who settle want to', what was the pass code for batch at 3.00 p.m. on that day ?**
- back go here people to want settle who
 - back go here people settle who want to
 - back go here people settle to want who
 - cannot be determined
 - None of these
- 25. What will be the pass code for the batch at 3.00 p.m. if input is 'four of the following five form a group' ?**
- a five following form group the of four
 - a five following form four group the of
 - a five following form four of the group
 - a five following form four group of the
 - None of these
- 26. In a row of 40 boys Sameer was shifted 10 places to the right of Raman and Kailash was shifted 10 places to the left of Vikas. If Vikas was 26th from the left end and there were three boys between Kailash and Sameer after shifting, what was the position of Raman in the row ?**
- Data inadequate
 - 10th from the left end
 - 10th from the right end
 - 39th from the right end
 - None of these
- 27. Arrange the vowels and consonants of the word 'ACCOMPLISHMENT' in an alpha order separately, the vowels first and then the consonants. If the first, the second and the third vowels so arranged, correspond to the first three, the next and the next three consonants so arranged respectively, E corresponds to which consonant ?**

- LMM
- HLM
- MMN
- MNP
- None of these

Directions (Qns. 28-30): P, Q, R, S, T, U, V, & W are sitting round the circle and are facing the centre.

- P is second to the right of T who is the neighbour of R & V.
 - S is not the neighbour of P.
 - V is the neighbour of U.
 - Q is not between S & W and W is not between U & S.
- 28. What is the position of S ?**
- Between U & V
 - Second to the right of P
 - To the immediate right of W
 - Data inadequate
 - None of these
- 29. Which two of the following are not neighbours ?**
- RV
 - UV
 - RP
 - QW
 - None of these
- 30. Which of the following is correct?**
- P is to the immediate right of Q
 - R is between T & U
 - Q is to the immediate left of W
 - U is between W & S
 - None of these
- 31. In a certain code 'RAIL' is written as 'KCTN' and 'SPEAK' is written as 'CGRUM'. How will 'AVOID' be written in that code ?**
- FKQXC
 - KRXCF
 - KQVCB
 - KQXCF
 - None of these
- 32. How many such pairs of letters are there in the word 'APPREHENSION' each of which has as many letters between them in the word as there are between them in the English alphabet ?**
- 4
 - 5
 - 6
 - 7
 - None of these

Directions (Qns. 33-35): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question.

Read both the statements and—

Give answer (1) if the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.

Give answer (2) if the Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.

Give answer (3) if the data either in Statement I alone or in Statement II alone are sufficient to answer the question.

Give answer (4) if the data in both the Statements I and II together are not sufficient to answer the question.

Give answer (5) if the data in both the Statements I and II together are necessary to answer the question.

CAUTION : Do Not mark your answer unless you consider both the statements carefully.

33. How is M related to N ?

- I P, who has only two kids, M & N, is the mother-in-law of Q, who is sister-in-law of N.
- II R, the sister-in-law of M, is the daughter-in-law of S, who has only two kids, M & N.

34. How many students from the class secured First Class ?

- I The number of students securing First Class was equal to the number of students failed and was one-third of the number of students passed in the class of 120 Students.
- II $\frac{1}{4}$ th of the girls, i.e. 10 and $\frac{1}{4}$ th of the boys secured 1st class in the class of 120 students.

35. What is the code for 'mangoes' in a code language?

- I In that code language 'Te Le Pa Na' means 'You eat many mangoes' and 'Le Na Da' means 'You sell mangoes'.
- II In the code language 'Ge Na Se La Le' means 'They eat bananas and mangoes' and 'Ne De Le La' means 'Who others eat bananas'.

Directions (Qns. 36-40) : In making decisions about important questions, it is desirable to be able to distinguish between 'strong' arguments and 'weak' arguments. 'Strong' arguments are those which are both important and directly related to the question. 'Weak' arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question.

Each question below is followed by three arguments numbered I, II and III. You have to decide which of the arguments is a 'strong' argument' and which of them is 'weak argument'.

36. Should the income generated out of agricultural activities be taxed?

Arguments :

- I No, farmers are otherwise suffering from natural calamities and low yield coupled with low procurement price and their income should not be taxed.
 - II Yes, majority of the population is dependent on agriculture and hence their income should be taxed to augment the Government resources.
 - III Yes, many big farmers earn much more than majority of the service earners and they should be taxed to remove the disparity.
- (1) All are strong
 (2) Only II and III are strong
 (3) Only I is strong
 (4) Only I and II are strong.
 (5) None of these

37. Should all the indirect taxes in India be combined into a single tax on all commodities ?

Arguments :

- I Yes, this will considerably simplify the tax collection mechanism and the cost of collecting tax will also reduce.
 - II Yes, the manufacturers and traders will be benefited by this which in turn will boost tax collection.
 - III No, no other country has adopted such system.
- (1) None is strong
 (2) Only I and III are strong
 (3) Only II is strong
 (4) Only II and III are strong
 (5) None of these

- 38. Should all the students graduating in any discipline desirous of pursuing post-graduation of the subjects of their choice be allowed to enroll in the post-graduate courses?**

Arguments:

- I Yes, the students are the best judge of their capabilities and there should not be restrictions for joining post-graduation courses.
 - II No, the students need to study relevant subjects in graduate courses to enroll in post-graduate courses and the students must fulfill such conditions.
 - III No, there are not enough institutes offering post-graduate courses which can accommodate all the graduates desirous of seeking post-graduate education of their own choice.
- (1) None is strong
 (2) Only I and II are strong
 (3) All are strong.
 (4) Only I and III are strong
 (5) None of these

- 39. Should there be complete ban on Indian professionals seeking jobs elsewhere after getting their education in India ?**

Arguments:

- I Yes, this is the only way to sustain present rate of technological development in India.
 - II No, the Indians settled abroad send huge amount of foreign exchange and this constitute a significant part of foreign exchange reserve.
 - III No, the practical knowledge gained by Indians by working in other countries help India develop its economy.
- (1) None is strong
 (2) Only I and II are strong
 (3) Only III is strong
 (4) Only II and III are strong
 (5) All are strong

- 40. Should there be only few banks in place of numerous smaller banks in India ?**

Arguments:

- I Yes, this will help secure the investor's money as these big banks will be able to withstand intermittent market related shocks.
- II No, large number of people will lose their job as after the merger many employees will be redundant.

III Yes, this will help consolidate the entire banking industry and will lead to healthy competition.

- (1) None is strong argument
 (2) Only I and III are strong arguments
 (3) Only II and III are strong arguments
 (4) Only I and II are strong arguments
 (5) All are strong arguments.

Directions (Qns. 41-45): Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Mark answer (1) if the inference is 'definitely true', i.e. it properly follows from the statement of facts given.

Mark answer (2) if the inference is 'probably true' though not 'definitely true' in the light of the facts given.

Mark answer (3) if the 'data are inadequate', i.e. from the facts given cannot say whether the inference is likely to be true or false.

Mark answer (4) if the inference is 'probably false', though not 'definitely false' in the light of the facts given.

Mark answer (5) if the inference is 'definitely false', i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

The performance of Indian agriculture is largely dependent on amount of rainfall across the country. A substantive part of the cultivable land is dependent on irrigation which is directly related to monsoon. However, agriculture and allied activities account for less than even one-fourth of the total GDP. The component of the manufacturing sector that depends on agriculture for the supply of intermediates is not very high, which suggests that the structure of industrialisation has changed over the years. Several components of the tertiary sector that are crucial for the growth of the rest of the economy have grown sizeably, thanks to IT and BPO. So, it is less likely that aggregate economic growth will be adversely affected if rainfall is scanty. Yet, a somewhat different picture emerges if we look deeper into the matter. Still, a very significant chunk of the population and work force depends on agriculture for its livelihood. A decline in agriculture reduces per capita food availability, which in turn, pulls down the standard of living.

41. Agro based activities constitute more than 25 per cent of GDP in India.
 42. The industrialisation process had undergone significant changes over the past few "decades".
 43. Non-industrial and non-agricultural sector activities have considerably grown over the past few years.
 44. Weak monsoon have adverse effect on GDP even though non-agricultural sector activities may continue to be the same.
 45. Manufacturing sector no longer depends on agricultural sector.

Directions (Qns. 46-50) : In the following questions, the symbols @, %, \$, # and * are used with the following meaning as illustrated below:

‘P \leq Q’ means ‘P is not smaller than Q’.

'P * Q' means 'P is neither smaller than nor equal to Q'.

‘P @ Q’ means ‘P is not greater than Q’.

'P # Q' means 'P is neither greater than nor smaller than Q'.

'P % Q' means 'P is neither greater than nor equal to Q'.

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is/ are definitely true ?

Give answer (1) if only Conclusion I is true.

Give answer (2) if only Conclusion II is true.

Give answer (3) if either Conclusion I or II is true.

Give answer (4) if neither Conclusion I nor II is true.

Give answer (5) if both Conclusions I and II are true.

- 46. Statements :**

Conclusions :

L D% M IL M * K

47. Statements :
R @ J, M # J, D * M

Conclusions :

L D *

Statements :

F\$M, N @ M, N, % W

49. Statements :
B # J, J @ D, F \$ D
 Conclusions :
L B # F IL F * B

- 50. Statements:**
 $Z \% T$, $T * N$, $H \$ N$
Conclusions :

Directions (Qns. 51-55): Read the following information carefully and answer the questions given below:

P, Q, R, S, T, V and Z are seven employees of call centre. They work in three shifts - I, II and III. There is at least one and not more than three among them in any of these shifts. Each of them get one day off in every week from Monday to Sunday. Q Works with only T in shift II and his weekly off is immediate to the next of the off day of P. S has weekly off on Sunday and he is not in the same shift with either R or Q. P is in shift I with R whose off day is immediately after Q and immediately before T. V's off day is immediately after T but not on Saturday. The employee having off day on Friday works in shift III and that on a Saturday does not work with TZ does not work either in shift II or in shift III.

51. In which shift do three of them work?
(1) I (2) II
(3) III (4) I or III
(5) Data inadequate

52. On which day of the week does Q have off day?
(1) Wednesday (2) Thursday
(3) Tuesday (4) Saturday
(5) None of these

53. Which of the following combinations of employee-off day-shift day is *not correct*?
(1) T - Thursday - II
(2) V - Friday - III
(3) P - Wednesday - I
(4) Z - Saturday - I
(5) All are correct

54. Who among them has off day immediately on the next of V's off day?
(1) P
(2) Z
(3) T
(4) Data inadequate
(5) None of these

55. In which shift does V work ?

- (1) II
- (2) III
- (3) II or III
- (4) Data inadequate
- (5) None of these

Directions (Qns. 56-60) : In a certain instruction system the different computation processes are written as follows :

- (a) $x \$ y \% z$ means z is multiplied by the sum of x and y .
- (b) $x \# y * z$ means that when y is subtracted from x and the resultant is divided by z .
- (c) $x @ y \odot z$ means x is added to the resultant when y is divided by z .
- (d) $x \bullet y \lambda z$ means x is subtracted from the product of y and z .

In each of the questions below, a set of instruction sequence is given. You are required to find out the outcome which should come in place of the question mark (?) in each of the given sets of sequence.

56. (i) $20 \# 10 * 2 = m$ (ii) $m \bullet 6 \lambda 4 = ?$

- (1) 19
- (2) 29
- (3) 4
- (4) Cannot be determined
- (5) None of these

57. (i) $60 \$ 20 \% 4 = n$ (ii) $8 @ n \odot 10 = ?$

- (1) 20
- (2) 40
- (3) 10
- (4) 60
- (5) None of these

58. (i) $15 \bullet 12 \lambda 5 = p$ (ii) $4 \$ 12 \% p = ?$

- (1) 720
- (2) 228
- (3) 108
- (4) 93
- (5) None of these

59. (i) $16 @ 12 \odot 8 = z$ (ii) $z \# 20 \bullet 8 = ?$

- (1) 240
- (2) 80
- (3) 120
- (4) Cannot be determined
- (5) None of these

60. (i) $80 \bullet 15 \lambda 8 = t$ (ii) $t \$ 5 \% 8 = ?$

- (1) $40 \# 40 * 10$
- (2) $40 \$ 40 \% 10$
- (3) $40 @ 40 \odot 10$
- (4) $40 \bullet 40 \lambda 10$
- (5) None of these

Directions (Qns. 61-65): In each of the following questions two rows of numbers are given. The resultant number in each row is to be worked out separately based on the following rules and the question below the rows of numbers are to be answered. The operations of numbers progress from left to right.

Rules : (i) If an odd number is followed by a two digit even number then they are to be added.

(ii) If an odd number is followed by a two digit odd number then the second number is to be subtracted from the first number.

(iii) If an even number is followed by a number which is a perfect square of a number then the second number is to be divided by the first number.

(iv) If an even number is followed by a two-digit even number then the first number is to be multiplied by the second number.

61. 15 . 11 20 400
 8 12 10

If the resultant of the second set of numbers is divided by the resultant of the first set of numbers what will be the outcome?

- (1) 196
- (2) 200
- (3) 19
- (4) 92
- (5) None of these

62. 40 30 3600
 15 24 17

What is the sum of the two resultant numbers of the set of numbers given above?

- (1) 22
- (2) 25
- (3) 28
- (4) 42
- (5) None of these

63. 8 16 16 14
 13 11 12 144

What is the difference between the resultant of the first set of numbers and the second set of numbers?

- (1) 222
- (2) 210
- (3) 118
- (4) 106
- (5) None of these

64. 13 11 4
 17 13 12

If the resultant of the first set of numbers is multiplied by the resultant of the second set of numbers, what will be the outcome?

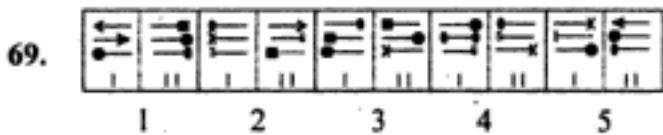
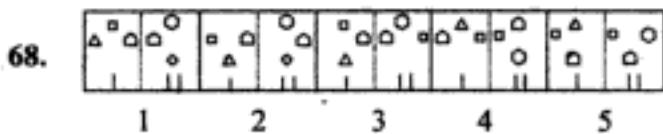
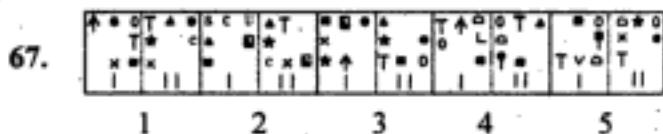
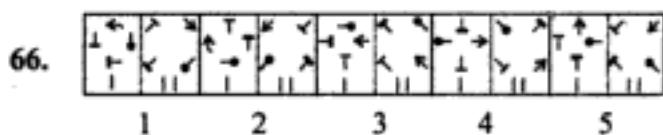
- (1) 48
- (2) 96
- (3) 69
- (4) 75
- (5) None of these

65. 19 15 12
15 12 23 16

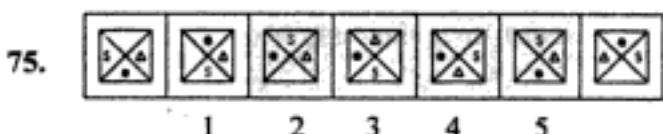
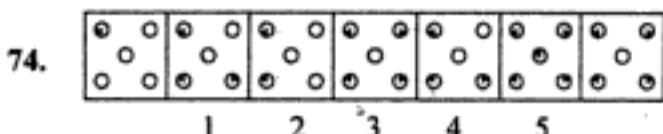
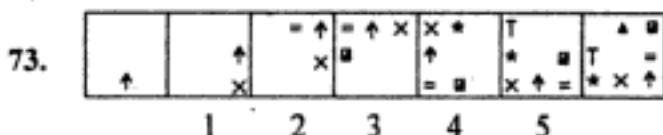
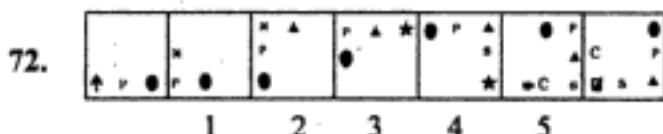
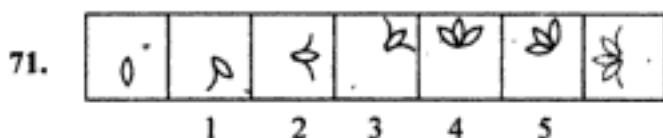
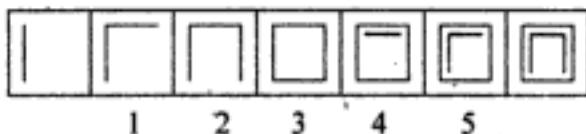
If the resultant of the second set of numbers is subtracted from the resultant of the first set of numbers what will be the outcome?

- (1) 44 (2) 92
(3) 29 (4) 43
(5) None of these

Directions (Qns. 66-70): In each of the following questions in four out of the five figures, element I is related to element II in the same particular way. Find out the figure in which the element I is not so related to element II.



Directions (Qns. 71-75): In each of the following questions series begins with unnumbered figure on the extreme left. One and only one of the five-numbered figures in the series does not fit into the series. The two-unnumbered figures one each on the extreme left and the extreme right fit into the series. You have to take as many aspects into account as possible of the figures in the series and find out the one and only of the five-numbered figures which does not fit into the series. The number of that figure is answer.



QUANTITATIVE APTITUDE

Directions (Qns. 76-78): What approximate value will come in place of the question mark (?) in the following equations?

76. $125\% \text{ of } 4875 + 88.005 \times 14.995 = ?$

- (1) 7395 (2) 7490
(3) 7510 (4) 7375
(5) 7415

77. $127.001 \times 7.998 + 6.05 \times 4.001 = ?$

- (1) 1440 (2) 1400
(3) 1000 (4) 1040
(5) 1140

78. $1010 + 36 + 187 \times 20.05 = ?$

- (1) 3650 (2) 3770
(3) 3825 (4) 3800
(5) 3700

79. What will come in place of question mark (?) in the following equation?

$$16^{7.5} \div 8^{3.5} \div 2^{7.5} = ?$$

- (1) 8^4 (2) 16^4
(3) 2^{15} (4) 2^{27}
(5) None of these

80. Present ages of Seema and Naresh are in the respective ratio of 5:7. Five years hence the ratio of their ages becomes 3:4 respectively. What is Naresh's present age in years?
- 25
 - 40
 - 30
 - Cannot be determined
 - None of these.
81. In a two digit number the digit in the unit's place is twice the digit in the ten's place and the number obtained by interchanging the digits is more than the original number by 27. What is 50% of the original number ?
- 36
 - 63
 - 48
 - 18
 - None of these
82. A committee of 3 members is to be formed out of 3 men and 4 women. In how many different ways can it be done so that atleast one member is a woman ?
- 34
 - 12
 - 30
 - 36
 - None of these
83. 4 boys and three girls are to be seated in a row in such a way that no two boys sit adjacent to each other. In how many different ways can it be done?
- 5040
 - 30
 - 144
 - 72
 - None of these
84. Mr. 'X' invested certain amounts in two different schemes 'A' & 'B'. Scheme 'A' offers simple interest at 12 p.c.p.a. and Scheme 'B' offers compound interest at 10 p.c.p.a. Interest accrued on the amount invested in Scheme A in 2 years was Rs. 3,600 and the total amount invested was Rs. 35,000. What was the interest accrued on the amount invested in Scheme 'B' ?
- Rs. 4,800
 - Rs. 4,200
 - Rs. 4,000
 - Cannot be determined
 - None of these

85. The salary of an employee increases consistently by 50% every year. If his salary today is Rs. 10,000, what will be the salary after another 4 years ?

- Rs. 62,500
- Rs. 26,500
- Rs. 50,625
- Rs. 33,750
- None of these

Directions (Qns. 86-90): In each of the following questions a number series is given. After the series a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the given number, following the sequence of original series and answer the questions that follow the series.

86. 3 19 103 439 1381 2887
 5 (a) (b) (c) (d) (e)
 What will come in place of (b) ?
- 139
 - 163
 - 161
 - 157
 - None of these

87. 4 13 40 135 552 2765
 2 (a) (b) (c) (d) (e)
 What will come in place of (c) ?
- 123
 - 133
 - 127
 - 131
 - None of these

88. 5 12 4 10 3 8
 6 (a) (b) (c) (d) (e)
 What will come in place of (d) ?
- 3
 - 5
 - 4
 - 7
 - None of these

89. 3 13 37 87 191 401
 1 (a) (b) (c) (d) (e)
 What will come in place of (d) ?
- 169
 - 161
 - 171
 - 159
 - None of these

90. 8 4 6 15 52.5 236.25
 12 (a) (b) (c) (d) (e)
 What will come in place of (c) ?
- 18.25
 - 19
 - 22.5
 - 20.75
 - None of these

Directions (Qns. 91-95) : In each of the following questions, a question is followed by information given in three statements. You have to study the question along with the statements and decide the information given in which of the statement(s) is necessary and sufficient to answer the question.

91. What is the average weight of girls in the class?

- I. Average weight of all the 60 students is 42 kg.
 - II. Average weight of boys is 43 kg.
 - III. Total weight of all girls together is 1144 kg.
- (1) Any two of three
 (2) All I, II & III
 (3) I & II only
 (4) II & III only
 (5) Question cannot be answered even with information in all three statements.

92. What is the selling price of the T.V. set if no discount is offered?

- I. Profit earned was 20%.
 - II. Had 10% discount been offered on selling price, the profit would have been Rs. 1,200.
 - III. Cost price is Rs. 15,000.
- (1) Any two of the three
 (2) Only I & II (3) Only I & III
 (4) Only II & III (5) None of these

93. What is the speed of the train?

- I. Length of the platform is 150% of the length of the train.
 - II. The train crosses the platform in 25 seconds.
 - III. The train crosses the signal pole in 19 seconds.
- (1) All I, II & III
 (2) I and either II or III
 (3) Only II & III
 (4) Any two of the three
 (5) Question cannot be answered even with the information in all the three statements.

94. How many children are there in the class?

- I. 20% children are there in the class?
 - II. 44 children can speak languages other than Hindi.
 - III. There are 30 boys in the class.
- (1) All I, II & III
 (2) Any two of the three
 (3) II and either I or III
 (4) I and II only
 (5) None of these

95. What is the volume of the cylindrical tank?

- I. Area of the base is X square metres.
 - II. Height of the tank is Y metres.
 - III. Diameter of the base is equal to height of the tank.
- (1) Only I & II
 (2) Only II & III
 (3) Only I & III
 (4) All I, II & III
 (5) Any two of the three

Directions (Qns. 96-100) : In each of these questions two equations numbered I & II are given. You have to solve both the equations and give answer.

- (1) if $a < b$
 (2) if $a > b$
 (3) if relationship between a & b cannot be established
 (4) if $a \geq b$
 (5) if $a \leq b$

96. I. $a^2 + 5a + 6 = 0$

II. $b^2 + 3b + 2 = 0$

97. I. $2a^2 + 3a + 1 = 0$

II. $12b^2 + 7b + 1 = 0$

98. I. $a^2 = 4$

II. $a^2 = 9$

99. I. $6a^2 - 25a + 25 = 0$

II. $15b^2 - 16b + 4 = 0$

100. I. $4a^2 - 20a + 21 = 0$

II. $2b^2 - 5b + 3 = 0$

Directions (Qns. 101-105): Study the following table carefully to answer these questions:

Percentage of marks obtained
by six students in six different subjects

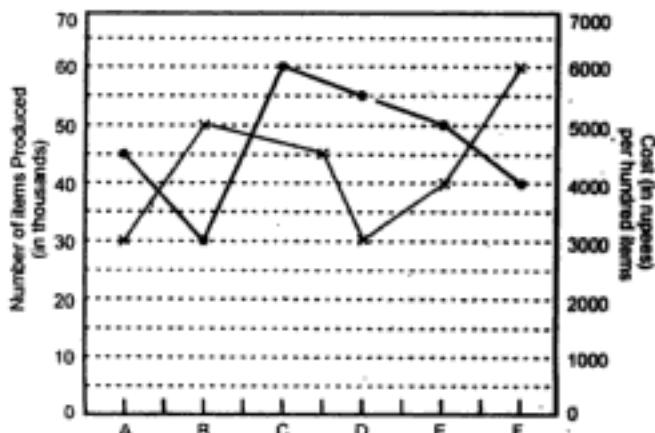
Student	Subject					
	P (70)	Q (80)	R (120)	S (125)	T (75)	U (150)
A	68	84	77	72	64	82
B	49	79	62	85	56	76
C	56	81	68	60	58	68
D	75	85	82	88	72	78
E	70	66	65	76	77	83
F	72	70	79	68	68	71

Note: Figure in bracket below each subject indicates the maximum marks allotted.

- 101.** What is the average percentage of marks obtained by all students in subject T ?
 (1) 65.6
 (2) 66.5
 (3) 66.8
 (4) 65.4
 (5) None of these
- 102.** Marks obtained by 'A' in subjects P, Q & R together are approximately what per cent of the marks obtained by F in subjects S, T & U together?
 (1) 80
 (2) 75
 (3) 85
 (4) 105
 (5) 115
- 103.** What is the overall percentage of marks obtained by 'B' in all the subjects together (rounded off to two digits after decimal) ?
 (1) 70.02
 (2) 72.51
 (3) 67.83
 (4) 71.50
 (5) None of these
- 104.** What are the marks obtained by D in all the subjects together?
 (1) 449.8
 (2) 499.9
 (3) 480
 (4) 490
 (5) None of these
- 105.** What are the average marks obtained out of 80 by all the six students together in subject 'Q'?
 (1) 68
 (2) 77.5
 (3) 88.57
 (4) 62
 (5) None of these

Directions (Qns. 106-110) : Study the following graph carefully to answer these questions:

Number of items produced (in thousands) and cost (in rupees) per hundred items in six companies



- 106.** What will be the total cost of items produced by Company C ?
 (1) Rs. 32 lakhs
 (2) Rs. 24 lakhs
 (3) Rs. 27 lakhs
 (4) Rs. 36 lakhs
 (5) None of these
- 107.** What is the average cost per hundred items for all the given companies?
 (1) Rs. $4183\frac{2}{3}$
 (2) Rs. $4283\frac{1}{3}$
 (3) Rs. $4333\frac{2}{3}$
 (4) Rs. $4333\frac{1}{3}$
 (5) None of these
- 108.** What is the total cost of the items produced by companies A & B together?
 (1) Rs. 17.50 lakhs
 (2) Rs. 33.25 lakhs
 (3) Rs. 15.75 lakhs
 (4) Rs. 32.75 lakhs
 (5) None of these

- 109.** What was the total number of items produced by all the companies together ?
 (1) 28500
 (2) 258000
 (3) 25800
 (4) 2850000
 (5) None of these

- 110.** If the number of items produced by Company 'D' increases by 30%, what will be the total cost of items produced ?
 (1) Rs. 21.45 lakhs
 (2) Rs. 22.45 lakhs
 (3) Rs. 24.25 lakhs
 (4) Rs. 22.25 lakhs
 (5) None of these

Directions (Qns. 111-115): These questions are based on the following information:

Children in a class play only one or two or all the three games - badminton, football and cricket. 5 children play only cricket, 8 children play only football and 7 children play only badminton. 3 children play only two games badminton and football, 4 children play only two games cricket and football and another 4 children play only two games badminton and cricket. 2 children play all the three games.

111. In all how many children play football ?

- (1) 8 (2) 17
 (3) 15 (4) 14
 (5) None of these

112. How many children play badminton as well as cricket ?

- (1) 9 (2) 10
 (3) 4 (4) 6
 (5) None of these

113. Totally how many children are there in the class ?

- (1) 33 (2) 31
 (3) 36 (4) 35
 (5) None of these

114. In all how many children play badminton ?

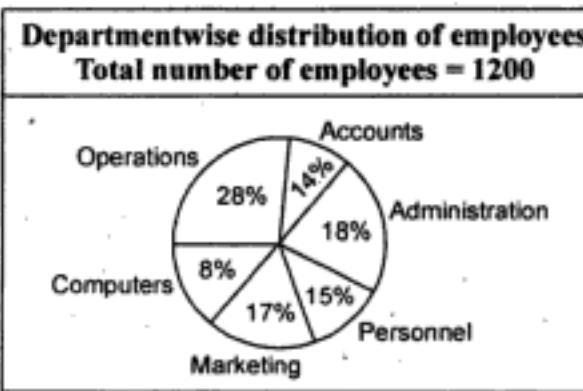
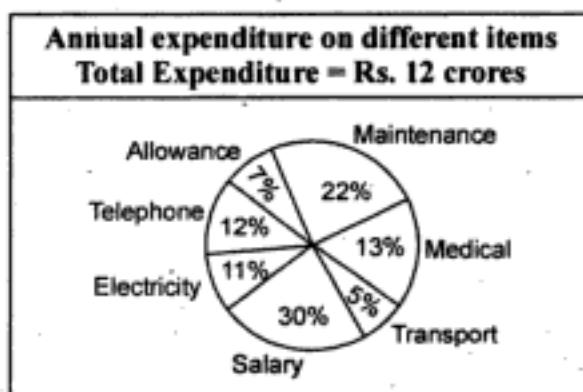
- (1) 14 (2) 17
 (3) 12 (4) 13
 (5) None of these

115. How many children play football as well as cricket?

- (1) 7 (2) 4
 (3) 6 (4) 15
 (5) None of these

Directions (Qns. 116-120) : Study the following graph carefully to answer these questions.

Details about the distribution of employees and expenditure of an organization (distributed proportionately across the departments)



116. What was the total expenditure on Accounts Department ?

- (1) Rs. 16.8 lakhs
 (2) Rs. 1,680 lakhs
 (3) Rs. 18.6 millions
 (4) Rs. 16.8 millions
 (5) None of these

117. What was per employee's expenditure on Medical?

- (1) Rs. 12,000
 (2) Rs. 13,000
 (3) Rs. 12,500
 (4) Rs. 13,500
 (5) None of these

118. What was the total expenditure on salary of employees in Marketing Department ?

- (1) Rs. 6.12 lakhs
 (2) Rs. 61.2 lakhs
 (3) Rs. 6.12 millions
 (4) Rs. 176 lakhs
 (5) None of these

119. What was the amount spent on Electricity?

- (1) Rs. 132 millions
 (2) Rs. 13.2 lakhs
 (3) Rs. 126 millions
 (4) Rs. 12.6 lakhs
 (5) None of these

120. What was the expenditure on telephone for employees in Computer Department ?

- (1) Rs. 11.52 lakhs
 (2) Rs. 11.52 millions
 (3) Rs. 10.72 lakhs
 (4) Rs. 10.72 millions
 (5) None of these

Directions (Qns. 121-125): Study the following table carefully to answer these questions.

**Sales of Product (in million tons)
 for six states over the years**

Year	State					
	A	B	C	D	E	F
1998	25	45	38	52	47	55
1999	32	39	40	55	46	67
2000	41	50	43	57	39	64
2001	37	48	43	58	32	72
2002	28	53	46	62	37	58
2003	43	55	49	63	42	62

- 121.** If the cost of product per thousand tons in 1998 was Rs. 1.8 lakhs, what was the cost of average sales for the given States in that year?
- Rs. 786000 lakhs
 - Rs. 786 lakhs
 - Rs. 7860 lakhs
 - Rs. 78600 lakhs
 - None of these
- 122.** Total sales in the year 2000 were what per cent of the total sales in the year 2003? (rounded off to two digits after decimal)
- 93.63%
 - 92.65%
 - 106.80%
 - 93.23%
 - None of these
- 123.** What was the percentage increase in total sales in 2003 from 1998? (rounded off to nearest integer)
- 19
 - 20
 - 16
 - 17
 - None of these
- 124.** Approximately what was the ratio between average sales of States B & C respectively?
- 31:25
 - 26:31
 - 29:24
 - 26:29
 - 29:26
- 125.** For which of the following years the percentage increase/decrease in sales from the previous years was highest for State 'E'?
- 1999
 - 2000
 - 2001
 - 2002
 - 2003

GENERAL AWARENESS

- 126.** The Planning Commission has set up a National Mission on Bamboo Technology and Trade Development as it is considered important in poverty alleviation and employment generation. Which of the following parts of India cannot take much benefit from the programme as it is not rich in bamboo plantation?
- North-Eastern States
 - Western Ghats
 - Chattisgarh
 - Gujarat
 - Andaman & Nicobar Islands
- 127.** The Economic Survey 2003-04 presented in the Parliament has identified five major problem areas the Indian Economy has to tackle. Which of the following is not one of them?
- Sustain growth rate at 7-8 per cent in next 5 years.
 - Contain inflation to the level of 11.5 per cent
 - Control the revenue deficit and fiscal deficit effectively
 - Achieve 10 per cent industrial growth
 - Boost agricultural growth by diversification of crops.
- 128.** Which of the following is *not* a part of the debt relief package for the farmers announced by the Finance Minister in June 2004?
- The farm credit will be raised by 30 per cent in fiscal year 2004-05.
 - Banks are allowed to lend farmers to repay their loans taken from non-institutional sources.
 - Farmers are allowed to use their Kisan Credit Cards even for personal and non-agricultural purposes upto a certain limit.
 - Only A
 - Only B
 - Only C
 - Only A & B
 - Only A & C
- 129.** What is web casting?
- Casting a movie/TV star in a role on the www.
 - Transmitting the video and audio on the internet.
 - Playing of music on the internet.
 - Searching on the web.
 - None of these.
- 130.** Labour reforms are one important aspect needed to restructure and boost up economy of a country. France and Germany are two major European countries who are trying to change the present practice of having 35 hour's working week. Which of the following reasons has/have forced them to change the same?
- It is holding back economic growth and the competitiveness of business firms.
 - It is coming in the way of creating more jobs.
 - Foreign investment has become slow.
 - 35 hours per week is proving unsustainable to some big/giant size companies.

- (1) Only A
 (2) Only B
 (3) Only C & D
 (4) Only A, C & D
 (5) A, B, C & D all

131. Which of the following is NOT one of the recommendations of the N.K. Singh Committee on venture capital funds for the entertainment industry?

- (A) Set up a Rs. 200 crore corpus as 'seed-money' to finance the sector in India.
 (B) The venture capital should be managed professionally through an asset management company.
 (C) A separate film finance corporation should be set up as banks should not be allowed to enter into the area of financing films/serials etc.
 (1) Only A
 (2) Only C
 (3) Only B & C
 (4) Only A & B
 (5) Only A, B & C

132. The date command at the DOS prompt enables you to—

- (1) View the date and time
 (2) Change the date
 (3) Change the date and time
 (4) Change the day only
 (5) None of these

133. The RBI is planning to carry out a quick fund infusion exercise in the Deposit Insurance and Credit Guarantee Corporation of India (DICGC). Which of the following is the reason owing to which RBI is considering for such a quick move?

- A. DICGC had to make payments to the customers of several cooperative banks failed in recent past.
 B. It is one of the conditions the World Bank and IMF have put before release of any fresh credit to India.
 C. Since Finance Ministry is of the opinion that only big banks having sound health should survive, DICGC is also required to be strengthened accordingly.
 (1) Only A (2) Only B
 (3) Only C (4) Only A & C
 (5) None of these

134. Many a times we come across the term "Money Laundering" in financial and corporate transactions. What does it really mean? (Pick up the correct statement).

- (1) This in fact is an exercise which help companies in making their financial statements more attractive so that they can raise funds through loans and advances from banks.
 (2) The term is used to depict the activity by which banks and financial institutes find out the amount actually needed by a company to complete a project or a particular activity, irrespective of their demand for a loan/advance.
 (3) When three-four banks or financial institutes come together to finance a company, it is called **money laundering**. The money raised jointly in such cases is kept with some altogether new bank and can be withdrawn only by the joint permission of the creditors.
 (4) When some money is passed on to some unknown person for some secretive purposes without the knowledge of the tax and governmental authorities, the activity is called **money laundering**.
 (5) None of these

135. The ruling UPA government released its Common Minimum Programme (CMP) in May 2004. Which of the following are the commitments made by the government in the programme ?

- A. Eliminate the Centre's revenue deficit by 2009.
 B. Rural Credit will be doubled in three years time.
 C. Adequate protection to farmers from imports particularly when international prices fall sharply.
 (1) Only A (2) Only B
 (3) Only C (4) Only A & B
 (5) A, B & C all

136. What are batch files in relation to computers ?

- (1) They begin with the letter BAT
 (2) They help you to keep files in batches
 (3) They help you to keep directories in batches
 (4) They help you to club a group of statements and run them one after another
 (5) They help you to keep both directories and file in batches.

- 137. Which of the following statements correctly describe the term 'convertible debentures' as used in corporate and financial world ?**
- It is the debenture which is issued as a 'bonus issue' to the holders
 - It is the debenture which after a specified time is converted to equity
 - It is the debenture issued by a company with the intention to buy it back after a specified time gap
 - These are debentures issued to the main promoters of a company, they are not available for trading in the market as they are payable only at time of the closure of the business by the company
 - None of these
- 138. Which of the following statement(s) is/are true about the 'Edusat', the satellite which was recently in news?**
- This will be used to conduct interactive teaching sessions and will improve the quality of education particularly in those areas in India where there is a paucity of good teachers.
 - The satellite is developed by NASA as a part of "Education to All Programme" of the UNESCO.
 - The satellite will cover around $\frac{2}{3}$ of African and $\frac{3}{4}$ of Asian continents and will benefit millions of school and college going students in these regions.
 - Only A
 - Only B
 - Only C
 - Only A & C
 - None of these
- 139. Which of the following statement(s) is/are true about the situation of Sudan which was in news these days ?**
- Sudan is passing through a stage of political and social turmoil as incidences of ethnic violence are going on there.
 - A group of people with the government backing is said to commit atrocities against black Africans in the province of Darfur.
 - The UNO has imposed sanctions on Sudan.
- Only A
 - Only B
 - Only A & B
 - Only C
 - All of these
- 140. Recently, there was a demand that the Armed Forces Special Power Act should be withdrawn. The demand was made by the people of which of the following States ?**
- Assam
 - Uttar Pradesh
 - Manipur
 - Gujarat
 - None of these
- 141. When you delete files in windows operating system, they are—**
- deleted permanently
 - put in recycle bin
 - wiped thoroughly so that nobody is able to recover the file back
 - deleted permanently and also wiped clean
 - the contents are garbled
- 142. Who amongst the following is the author of the book 'Through the Corridors of Power' released recently?**
- Kiran Bedi
 - P.C. Alexander
 - J.N. Dixit
 - T.N. Seshan
 - None of these
- 143. In case of cooperative banks working in India, the role of the RBI is of a joint supervisor and regulator. Who amongst the following is another regulator of such banks?**
- Securities and Exchange Board of India
 - Registrar of Companies
 - Registrar of Cooperative Societies
 - None of these
- 144. In which of the following countries a severe flood killed around 450 people and covered almost two-thirds of the country (in July 2004). The UNO, had to issue a warning of a humanitarian crisis there.**
- Bangladesh
 - India
 - Nepal
 - Pakistan
 - Bhutan

145. The Union Budget 2004-05 has proposed a 2 per cent education cess on all central taxes. How would the collected amount be used ?

- (A) On improving quality of technical education being imparted by ITIs.
- (B) Paying salary and perks to the teachers who have not received their salaries since so many years.
- (C) On the primary education of poor children and their midday meals.
- (1) Only C
- (2) Only B
- (3) Only A
- (4) Only A & B
- (5) A, B & C all

146. Format command—

- (1) Formal the CPU
- (2) Formats floppy drives only
- (3) Format should be left to the engineers to use
- (4) Formats a disk to receive files
- (5) Formats the selected file

147. The Government on December 20, 2004, introduced the Hindu Succession (Amendment) Bill, 2004, are based on the recommendations of the Law Commission in its _____ on proposed Reform under the Hindu law.

- (1) 16th Report
- (2) 17th Report
- (3) 18th Report
- (4) 19th Report
- (5) 20th Report

148. The Securities and Exchange Board of India (SEBI) Committee on Corporate Governance was headed by—

- (1) N. R. Narayana Murthy
- (2) Adi Godrej (3) B.K. Birla
- (4) Ratan Tata (5) None of these

149. Rajendra Shah, the recipient of the prestigious Jnanpith Award recently writes in—

- (1) English (2) Hindi
- (3) Marathi (4) Gujarathi
- (5) Bengali

150. In the past several months it is observed that some Indian companies are planning to enter into the business which were not their core areas up till now. Which is the new area in which oil marketing companies BPCL and IOC have shown their interest? (As per newspaper reports)

- (1) Airport privatisation
- (2) Banking & Insurance Services
- (3) Information Technology
- (4) Hospitality Services
- (5) None of these

151. Malnutrition makes the people less intelligent and less productive. Several programmes, schemes are launched to beat the hunger and/or malnutrition worldwide. Which of the following programmes cannot be considered as one such programme ?

- (A) To encourage exclusive breast feeding
- (B) Midday meals in schools
- (C) Food for work programme
- (D) Providing extra dose of polio drops
- (1) Only A & C
- (2) Only D & B
- (3) Only A & C
- (4) Only A, C & D
- (5) Only D

152. Arithmetic Logic Unit and control sections have special purpose locations called—

- (1) Registers
- (2) RAM
- (3) BIOS
- (4) I/O
- (5) ROM

153. What is the function of a modem?

- (1) Encryption and Decryption
- (2) Converts data to voice and vice-versa
- (3) Converts analog signals to digital and vice-versa
- (4) Serves as a hardware anti-virus
- (5) None of these

154. Which of the following statement(s) is/are true about the ASEAN Free Trade Area (AFTA), which was in news recently ?

- A. Some long standing members reduced their tariffs on one another's goods.
- B. AFTA has integrated four new members Cambodia, Laos, Myanmar and Vietnam.
- C. Scope is now widened as new investment opportunities are also being explored.
- D. AFTA is signing a collective free trade agreements with India, China and Japan
- (1) Only A, B and C
- (2) Only A, C & D
- (3) Only A & D
- (4) Only B & C
- (5) A, B, C & D all

- 155.** "The green revolution of the 1950s and 70s filled millions of Asian bellies, but has been much less successful in Africa." Which of the following may be called the probable reason(s) for the failure of such a wonderful programme in Africa?
- A. High-yielding varieties of rice and wheat were not planted there widely.
 - B. Africa is a water stressed area, whereas green revolution was for the countries full of water.
 - C. People who were engaged in agricultural activities were not owners of the land they were tilling.
 - D. African economy is not based on agriculture.
- (1) Only A
 - (2) Only B
 - (3) Only C
 - (4) Only A, B and C
 - (5) A, B, C & D all
- 156.** Networking using fibre optic cable is done as—
- (1) it has high bandwidth
 - (2) it is thin and light
 - (3) it is not affected by electromagnetic interference/power surges etc.
 - (4) All of these
 - (5) None of these
- 157.** The UPA-led Union Government is very keen to provide a boost to the Agriculture sector. What at present is the contribution of this sector in the total GDP?
- (1) 10 per cent
 - (2) 15 per cent
 - (3) 18 per cent
 - (4) 22 per cent
 - (5) 33 per cent
- 158.** Indian corporates and partnership firms are now allowed to invest overseas upto 100 per cent of their network. How this decision of the policy makers will help Indian corporates and partnership firms? [Pick up the correct statement(s)]
- A. It will help them in making their presence felt in global market.
 - B. It will attract foreign companies to invest more in India as Indians are allowed to invest only in those companies who are already functioning in India and not in new ones.
 - C. It is an act of balancing the foreign exchange reserves of India which are swelling very fast.
- (1) Only A
 - (2) Only B
 - (3) Only C
 - (4) Only A & C
 - (5) None of these
- 159.** Which of the following statement(s) is/are true about the Union Budget 2004-05 passed recently?
- A. Tax rebate for those earning upto Rs. 1,11,200/- so that their take-home income comes to Rs. 1 lakh after the tax.
 - B. Tax on airlines leasing aircraft from abroad valid on deals signed after April 1, 2005.
 - C. Chartered Accountants and tax professionals are held responsible for any falsification of account books irrespective, of its impact on tax evasion.
- (1) Only A & B
 - (2) Only B
 - (3) Only A & C
 - (4) Only A
 - (5) All of the above
- 160.** Conference (netscape) Net-meeting (internet explorer) enables (choose the option that best describes)—
- (1) Sharing voice on the net.
 - (2) Live textual Conferencing
 - (3) Live audio conferencing
 - (4) Live real time conference
 - (5) None of these
- 161.** Some specific measures are taken by the Reserve Bank of India to encourage mass use of information technology in the banking industry. Some such measures were proposed in the Credit and Monetary Policy 2004-2005 announced in May 2004. Which of the following statement(s) represent(s) the same?
- A. Bank rate is kept stable at 6 per cent
 - B. Single window services for all transactions in cash department of RBI was introduced.
 - C. Service charges on banks for electronic fund transfer and electronic clearing services are waived.
- (1) Only A
 - (2) Only B & C
 - (3) Only C
 - (4) Only B
 - (5) All of the above

- 162.** The Union Finance Minister in one of his speeches had given an indication that the interest rates may go up. Which of the following are considered the major contributory factors in the rise of interest rates ?
- High fiscal deficit
 - Improved credit demand from commercial sector.
 - High inflation
 - (1) Only A (2) Only B
(3) Only C (4) Only A & C
(5) All of the above
- 163.** Who amongst the following is the Prime Minister of Pakistan at present ?
- Mir Zafarullah Khan Jamali
 - Chaudhary Shujaat Hussain
 - Shaukat Aziz
 - Khurshid Mehmood Kasuri
 - None of these
- 164.** Which of the following countries won maximum number of medals in Athens Olympics 2004 ?
- China (2) USA
(3) Russia (4) Brazil
(5) None of these
- 165.** E-commerce uses the following: key standards/technologies—
- Electronic Data Interchange (EDI)
 - Technical Data Interchange (TDI)
 - Standard for Exchange of Products model data (STEP)
 - Extensible Markup Language
 - All of these
- 166.** As per the findings of the survey, conducted by the FICCI, the climate for foreign direct investment in India is quite positive and five major sectors were identified as most lucrative for strong FDI inflows. Which of the following is NOT one of those five ?
- Information Technology
 - Banking-Sector
 - Service Sector
 - Chemical & Chemical Product
 - None of these
- 167.** The passport of all Gulf bound Indian passengers are not valid for which of the following countries?
- Iraq (2) Iran
(3) Saudi Arabia (4) Kuwait
(5) All of the above
- 168.** The World Bank has suggested that India should take certain measures to improve its economy. Which of the following is NOT included in the same ?
- Simplifying tax structure
 - Eliminating exemptions
 - Bringing services in the tax net
 - Implementing a Value Added tax system
 - All above are included in the same
- 169.** The Union Government recently made certain announcements to provide relief to the sugar industry which is passing through a difficult phase. Which of the following is TRUE in this regard?
- The statutory minimum price of sugarcane is fixed on a higher level of base recovery.
 - The statutory minimum price will be determined on the basis of 'average' sugar recovery and not on the basis of 'peak' recovery.
 - The rate of interest on loans from the Sugar Development Fund is reduced to a substantial level.
 - (1) Only A (2) Only B
(3) Only C (4) Only A & C
(5) All of the above
- 170.** The Central Government, recently slashed the excise and customs duties on petrol, diesel, kerosene and cooking gas. Which of the following is/ are the reason(s) owing to which the Government has taken this decision ?
- India is not self-sufficient in the field of petroleum products. Hence more and more imports are needed to meet the rising demand of such products. The decision taken by the Government will help the importers.
 - This is an attempt on the part of the Central Government to insulate domestic consumers from soaring prices of the petroleum products in the international market.
 - As per the agreement with the WTO, India has to purchase 30 per cent petroleum products from the international market and also to sell same amount of its domestic production on subsidised rate to 15 poor countries whose local petroleum production is also nil or less than 1 per cent of their total demand. A reduction in duties will help India to keep a balance in Purchase and Selling of the same.
 - (1) Only A (2) Only B & C
(3) Only C (4) Only A & B
(5) Only B

- 171.** Some small, cooperative and private banks in India had to face a frenzy of their depositors recently as lot of them wanted to withdraw their money at the same time. In the event of winding up of a bank how the interest of the depositors are protected in the eyes of the law? [Pick up the correct statement(s)].
- Depositors' money gets precedence over banks' capital and depositors will lose only if the bank's losses are more than its capital
 - Depositors will get up to Rs. 10,000 only irrespective of the size of their deposit in the bank.
 - The small depositors are given full assurance as all such deposits (upto Rs. 1 lakh) are fully insured by the DICGC.
- (1) Only A (2) Only B
 (3) Only A & C (4) Only C
 (5) None of these
- 172.** Late Frances Crick who died recently was a famous—
- Journalist (2) Scientist
 - Politician (4) Musician
 - Sports personality
- 173.** Which of the following is the reason owing to which many Indian businessmen are forced to close their businesses in Nepal?
- Nepal does not have a well defined business policy/trade agreement with India.
 - Maoists are targeting business owned by Indians
 - Nepal which is on the way to financial reforms wants all business over and above Rs. 50 crores to be owned jointly by atleast two Nepalese as partners. Finding a suitable partner is difficult.
- (1) Only A (2) Only A & B
 (3) Only B (4) Only C
 (5) None of these
- 174.** Which of the following is the reason owing to which a large number of experts from the field of economics, social service, cinema, management, public administration, industry and also hailing from World Bank, ADB, FICCI, CII, CRISIL, etc. were called by the Planning Commission of India for a discussion and meeting?
- The Government of India is of the opinion that the Planning Commission should not be a small group of 10-12 members. Instead it should be a body of atleast 350 experts representing all States and all major fields. These people were called to express their views on the proposal.
 - These people were called as a part of various consultative groups set up by the Planning Commission so that a thorough midterm appraisal of the 10th Five Year Plan can be conducted.
 - The Planning Commission wishes to take the help of experts from various fields so that it can reorient the 10th Plan on the lines of UPA Government's Common Minimum Programme
- (1) Only A (2) Only B
 (3) Only C (4) Only A & B
 (5) Only B & C
- 175.** In an international conference held in Shanghai in May 2004, the poverty alleviation model of which of the following countries was highly appreciated over western model by most of the delegates including the President of the World Bank?
- India (2) China
 - Russia (4) Indonesia
 - None of these

ENGLISH LANGUAGE

Directions (Qns. 176-180): In each of the following sentences there are two blank spaces. Below each sentence there are five pairs of words denoted by numbers (1), (2), (3), (4) and (5). Find out which pair of words can be filled up in the blanks in the sentence in the same sequence to make the sentence grammatically correct and meaningfully complete.

- 176.** Public announcements of by the Government is considered as of code of conduct during the pre-election period.

- freebies appeasement
- favours violation
- policies honour
- provisions imposition
- manifests breaches

- 177.** Germany had been a nation in one country of numerous states which had a common language and
- assembled dialect
 - assimilated script

- (3) embedded civilisation
 (4) united traditions
 (5) formed code

178. Though the country has free medical service for the poor, it is.....

- (1) stopped unaffordable
 (2) rendered essential
 (3) maintained admirable
 (4) favoured appreciable
 (5) instituted inadequate

179. If criminals are to join electoral fray, is likely to increase.

- (1) compelled brotherhood
 (2) encouraged harmony
 (3) allowed extortion
 (4) deterred corruption
 (5) invited voting

180. The recently Olympic Games experienced some unhealthy practices to by few athletes.

- (1) concluded.... resorted
 (2) finished preferred
 (3) held exhibited
 (4) over adhered
 (5) closed devoured

Directions (Qns. 181-195) : Which of the phrases (1), (2), (3) and (4) given below should replace the phrase given in **bold** in the following sentence to make the sentence grammatically correct. If the sentence is correct as it is and no correction is required, mark (5) as the answer.

181. The military has highly sophisticated simulators **on which soldiers train**.

- (1) which soldiers training on
 (2) on which soldiers have trains
 (3) which the soldiers do train
 (4) on which the soldiers have been trained
 (5) no correction required

182. Any policy of social welfare **will be likely to face resistance from vested interests**.

- (1) would be like facing
 (2) will be likely facing
 (3) is likely to face
 (4) is likely to be facing with
 (5) no correction required

183. The key to a competitive economy is **its investment regime**.

- (1) in its invested regime
 (2) in its investment regime
 (3) investment of its regime
 (4) investment in its regime
 (5) no correction required

184. The honourable court had taken a lenient view because the accused **have not previous conviction**.

- (1) had no previous conviction
 (2) had not previously convicted
 (3) had not been previous convictions
 (4) had no previously convicted
 (5) no correction required

185. Our foreign exchange reserves **have increased substantial**.

- (1) have been increased substantially
 (2) have increased substantially
 (3) have substantially increasing
 (4) have been substantial in increase
 (5) no correction required

186. In the early centuries of that second millennium B.C., people speaking strange dialects **akin to that of India**, moved in northern Iraq ant Syria.

- (1) akin to those (2) akin to that in
 (3) akin to those into (4) keen, to those of
 (5) no correction required

187. It is becoming equally clear that reforestation will have little chance until people realise its importance.

- (1) has become equal and clear
 (2) has become equally clear
 (3) has become clearly equal
 (4) is becoming clearly equal
 (5) no correction required

188. Once the event is over, many people claim credit for success and disowning the responsibility for failure.

- (1) of success and disowning
 (2) for success but disowning
 (3) for success but disown
 (4) for success while disowned
 (5) no correction required

189. When sharks approach divers, they usually did so warily.

- (1) as usual did so warily
 (2) usually did so wary
 (3) usually are doing so wary
 (4) usually do so warily
 (5) no correction required

- 190. We observed that the rug dealers were primary dedicated to the art of selling rugs.**
- were primarily dedicated
 - had primary been dedicated
 - had been dedicated primary
 - were being primary dedication
 - no correction required
- 191. The real wonder is that the Egyptians while constructing pyramids possessed only the simplest hand tools.**
- were possessed only by simple
 - had possession of only simpler
 - possess only the simplest
 - were possessing the only simplest
 - no correction required
- 192. The government should have launch such projects which would reverse the destructive cycle of flood and drought.**
- must be launching
 - should launch
 - should have been launched
 - must have been launched
 - no correction required
- 193. To practise any art properly require extraordinarily patience — especially at the beginning.**
- required extraordinarily patient
 - requires extraordinary patience
 - requiring extraordinary patience
 - requiring extraordinarily patient
 - no correction required
- 194. A committee comprising imminent experts from various fields was set up.**
- comprising of imminent
 - comprising into eminent
 - consisting of imminent
 - comprising eminent
 - no correction required
- 195. The dinner party hoisted by the President of the club was cancelled due to some unforeseen problem.**
- hosted with
 - hoisted with
 - hoisted for
 - hosted by
 - no correction required

Directions-(Qns. 196-205): Read the following passage carefully and answer the questions given below it. Certain words/phrases have been printed in **bold** to help you locate them while answering some of the questions.

Passage

Over the last three centuries, the world economy has evolved from a predominantly agriculture-based system to a digital economic system. The earlier economies were mainly agrarian. In this era, capital did play a role, as did technological innovations such as the plough, the steamboat or the train. But land and labour were more critical.

With the industrial revolution, the global economy was primarily driven by the ability to produce goods for the mass market. This led to the industrial economy where capital and labour were the most important drivers.

In the service economy, the wealth created by services exceeded the wealth created through manufacturing. Here, the ability of the service provider to establish a sound business gave him access to additional capital. This evolved into a global economy where goods and services were traded across international borders, with little restriction. In this period, capital started flowing across borders on all large scale for the first time.

The last five years have seen the advent of the digital economy where technology is becoming the driving force. With information being the driver of value and wealth creation, information technology is becoming the key to success in a growing number of industries. In the digital economy, the power of innovation and ideas gained the upper hand over direct access to capital.

The Indian economy is in a unique in terms of its economic evaluation. While manufacturing and service industries in India cannot freely access capital, the new breed of IT-based industries have access to venture capital and private equity. The country's potential in this emerging sector has opened the doors to capital inflows that are still not available to traditional industries.

There are two key trends which will boost the democratisation of capital, either directly as funding sources or indirectly.

More effective capital market routes—especially for information-based and software companies.

This is already happening rapidly. A market that was supposed to be stagnating with no public offering

from the manufacturing sector in the first quarter of the fiscal year, may see as many as 20-25 new software issues this year. Numerous internet and e-commerce companies are tapping funds through the capital market. For the financial intermediaries as well as for the investing public, dot com or 'info' initial offerings are fast becoming attractive investment alternatives to traditional manufacturing or financial sector offers.

With more effective capital markets, for high potential IT stocks, '**critical mass**', which in the industrial economy was primary in ensuring a company's ability to raise capital, will cease to matter. This underlines the manner in which a **burgeoning** digital economy has led to a redeployment of capital from a concentrated segment to the smaller knowledge entrepreneur.

A greater number of venture capitalists actively seeking to fund budding knowledge entrepreneurs. Along with the rise in Net entrepreneurs one has seen the emergence of a new breed of venture capitalists who recognise the potential that resides in these ideas. The emergence and strengthening of the virtual economy necessitates sources of funds at the 'ideation' stage where business plans may still be at the infancy stage and potential not clearly identified.

This need is being fulfilled by the incubator funds or the angel investors who handhold internet start-ups and other infotech ventures till the stage at which they can attract bigger investors. Instead of looking at high risk but big ventures, this genre of venture capitalists are looking at investments in companies which have the potential of excellent valuations in the future on the strength of their ideas.

196. Which of the following has been rated as most crucial in agro-based economy ?

- (A) Capital, steamboat and trains.
- (B) Technological innovations like plough, etc.
- (C) Labour and land.
- (1) Only A and B
- (2) Only C
- (3) Only B
- (4) Only A
- (5) None of these

197. How did service economy evolve into a global economy ?

- (1) The wealth gained through services exceeded the gain through manufacture
- (2) The services started flowing across borders
- (3) The labour started producing goods for mass market
- (4) The trade for services and goods crossed the International borders
- (5) None of these

198. Which of the following best describes the phrase '*critical mass*' as used in the passage ?

- (1) Paradigm shift fund base to knowledge base.
- (2) The net worth of small knowledge entrepreneur.
- (3) The ability of an organisation to raise funds.
- (4) The sum total capital of industrial economy.
- (5) None of these

199. The public of which type of companies are preferred by the investors at present ?

- (1) Service sector companies.
- (2) Agro-based companies.
- (3) Information-based companies.
- (4) Companies dealing with financial sector.
- (5) None of these

200. What impact on economy has been envisaged owing to rise in net enterprise ?

- (1) The venture capitalists have started financing the projects even at the planning stage.
- (2) The economic planning will no more be realistic now.
- (3) The funding of unplanned projects have increased.
- (4) Virtual economy has necessitated the source of funds from abroad.
- (5) None of these

201. Which trend boost capital growth in the modern era ?

- (1) Conversion of land and labour to private equity.
- (2) Converting manufacturing industries into service sector.
- (3) Generating resources through international trade.
- (4) Promoting information based and software companies.
- (5) None of these

- 202.** Which of the following statements is **NOT TRUE** in the context of the passage ?
- The real estate and labour force was the strength of agrarian economy.
 - Service economy surpassed the industrial economy.
 - The information technology is the key to success in the present context.
 - The venture capitalists are only financing those sectors which lay emphasis on production of goods on mass scale.
 - Information-based and software companies are effective in boosting capital market.
- 203.** What is meant by 'angel investors' ?
- The investors who fund the project till such time it starts attracting large investment.
 - Those people who are committed to develop virtual economy.
 - The investors who invest on behalf of someone else.
 - Those who invest in only companies who have an excellent evaluation.
 - None of these
- 204.** Which of the following is a power behind digital economy?
- The capital generated through innovation and ideas.
 - The venture capital generated through sale of land.
 - The force of labour and capital in manufacturing industries.
 - The ability of service provider to set up a sound business.
 - None of these
- 205.** Where was the shift in emphasis in industrial economy ?
- The labour force became redundant.
 - The technological innovations were overrated.
 - The capital got an edge over land.
 - Class markets turned to mass markets.
 - None of these
- Directions (Qns. 206-208):** Choose the word which is most nearly the **SAME** in meaning as the word printed in bold as used in the passage.
- 206. Access**
- reach
 - loan
 - help
 - advantage
 - utility

- 207. Advent**
- shining
 - departure
 - power
 - force
 - arrival
- 208. Traditional**
- religious
 - excessive
 - old
 - customary
 - sick

Directions (Qns. 209-210): Choose the word which is most opposite in meaning to the word printed in **bold** as used in the passage.

- 209. Burgeoning**
- growing
 - retarding*
 - dipping
 - unique
 - common
- 210. Stagnating**
- developing
 - redundant
 - over working
 - fixed
 - stationery

Directions (Qns. 211-215): Rearrange the following six sentences (A), (B), (C), (D), (E), and (F) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- The group of Egyptians provided answers to all his questions as they were impressed by the visitor's keen observation and intellectual curiosity.
- From time to time he glanced at the map in his guide book to make sure that he was following them accurately.
- All these efforts were directed towards his goal to write a book on the various places he saw and the people he met.
- On one bright day, a famous traveller and writer from the West was listening to a group of Egyptians who described to him the wonders of their country.
- Back in his room he industriously set down his facts and his impressions in an elaborate file of notes.
- Repeatedly he interrupted with pertinent questions about Egyptian antiquities or local customs or the latest crisis in the Middle East.

- 211. Which of the following would be the *FIRST* sentence after rearrangement ?**
- A
 - F
 - C
 - D
 - E

212. Which of the following would be *FOURTH* sentence after rearrangement?

- | | |
|-------|-------|
| (1) A | (2) B |
| (3) C | (4) D |
| (5) E | |

213. Which of the following would be the *LAST (SIXTH)* sentence after rearrangement?

- | | |
|-------|-------|
| (1) A | (2) B |
| (3) C | (4) D |
| (5) E | |

214. Which of the following would be the *SECOND* sentence after rearrangement?

- | | |
|-------|-------|
| (1) A | (2) B |
| (3) F | (4) D |
| (5) E | |

215. Which of the following would be the *FIFTH* sentence after rearrangement?

- | | |
|-------|-------|
| (1) A | (2) B |
| (3) C | (4) D |
| (5) E | |

Directions (Qns. 216–225): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate words without changing the meaning of the passage.

Passage

Lately, the media seems to have gone berserk in (216) everything that pertains to the New Economy. Behind the great bulk of the articles on the subject are two (217) assumption. First, that the New Economy businesses are likely to push Old Economy industries all the way into oblivion. Second, that (218) about the New Economy is far superior to that of the Old Economy.

Both those emphatic assumptions could be (219) flawed. Physical products—the cornerstone of the Old Economy—are hardly likely to (220) out in importance even in the age of the Internet. After all, the consumption of physical goods is hardly going down.

In everything—from steel automobiles (221) is only going up. But above and beyond all this, the New

Economy also needs Old Economy products to survive. You can sell goods on the Internet, after all, only if (222) is producing those goods. Besides which, people still want all those Old Economy goods.

As far as the second point is concerned, the one big weakness about the New Economy is that it is (223) more volatile than the Old Economy. The rate of evolution of products—the crux of the Old Economy—will (224) always be slower than the rate of the growth and proliferation on new ideas on any given subject.

And hence, the Old Economy (based on products) will always be relatively more (225) than the New Economy (based largely on ideas).

- | | |
|-----------------------|-------------------|
| 216. (1) listening | (2) advocate |
| (3) ignoring | (4) adopting |
| (5) viewing | |
| 217. (1) bold | (2) emphasizing |
| (3) underlying | (4) overriding |
| (5) overlapping | |
| 218. (1) glitter | (2) everything |
| (3) each thing | (4) proceed |
| (5) highlight | |
| 219. (1) thinking | (2) deliberately |
| (3) casually | (4) carelessly |
| (5) seriously | |
| 220. (1) lose | (2) charm |
| (3) iron | (4) stand |
| (5) bear | |
| 221. (1) trend | (2) movement |
| (3) consumption | (4) cost |
| (5) production | |
| 222. (1) mass | (2) someone |
| (3) none | (4) person |
| (5) marketing | |
| 223. (1) obviously | (2) reportedly |
| (3) naturally | (4) intrinsically |
| (5) abysmally | |
| 224. (1) subjectively | (2) deliberately |
| (3) have | (4) accordingly |
| (5) necessarily | |
| 225. (1) stable | (2) dogmatic |
| (3) fragile | (4) volatile |
| (5) specific | |

ANSWERS

1. (4)	2. (1)	3. (3)	4. (2)	5. (5)	116. (4)	117. (2)	118. (3)	119. (5)	120. (1)
6. (2)	7. (2)	8. (2)	9. (4)	10. (5)	121. (4)	122. (1)	123. (2)	124. (5)	125. (3)
11. (3)	12. (1)	13. (4)	14. (4)	15. (4)	126. (4)	127. (2)	128. (2)	129. (2)	130. (3)
16. (3)	17. (5)	18. (2)	19. (4)	20. (3)	131. (4)	132. (1)	133. (3)	134. (4)	135. (5)
21. (4)	22. (5)	23. (5)	24. (5)	25. (5)	136. (4)	137. (4)	138. (1)	139. (3)	140. (2)
26. (1)	27. (1)	28. (3)	29. (1)	30. (3)	141. (2)	142. (2)	143. (1)	144. (1)	145. (5)
31. (4)	32. (2)	33. (1)	34. (3)	35. (5)	146. (3)	147. (2)	148. (4)	149. (4)	150. (3)
36. (2)	37. (5)	38. (5)	39. (1)	40. (1)	151. (5)	152. (1)	153. (3)	154. (2)	155. (4)
41. (5)	42. (5)	43. (1)	44. (5)	45. (5)	156. (4)	157. (4)	158. (4)	159. (1)	160. (4)
46. (5)	47. (1)	48. (3)	49. (3)	50. (4)	161. (5)	162. (4)	163. (3)	164. (2)	165. (1)
51. (1)	52. (3)	53. (3)	54. (2)	55. (2)	166. (4)	167. (1)	168. (4)	169. (4)	170. (5)
56. (1)	57. (2)	58. (1)	59. (4)	60. (4)	171. (3)	172. (2)	173. (3)	174. (4)	175. (2)
61. (5)	62. (2)	63. (4)	64. (2)	65. (1)	176. (2)	177. (4)	178. (5)	179. (3)	180. (1)
66. (4)	67. (5)	68. (2)	69. (3)	70. (1)	181. (3)	182. (3)	183. (2)	184. (1)	185. (2)
71. (1)	72. (2)	73. (3)	74. (5)	75. (5)	186. (2)	187. (2)	188. (3)	189. (4)	190. (1)
76. (5)	77. (4)	78. (2)	79. (1)	80. (5)	191. (5)	192. (2)	193. (2)	194. (4)	195. (4)
81. (1)	82. (1)	83. (3)	84. (2)	85. (3)	196. (2)	197. (4)	198. (3)	199. (3)	200. (1)
86. (2)	87. (1)	88. (3)	89. (4)	90. (3)	201. (4)	202. (4)	203. (1)	204. (1)	205. (3)
91. (2)	92. (1)	93. (5)	94. (4)	95. (5)	206. (1)	207. (5)	208. (4)	209. (2)	210. (1)
96. (5)	97. (1)	98. (3)	99. (2)	100. (4)	211. (4)	212. (5)	213. (3)	214. (3)	215. (2)
101. (5)	102. (3)	103. (3)	104. (2)	105. (4)	216. (5)	217. (2)	218. (4)	219. (2)	220. (4)
106. (3)	107. (5)	108. (2)	109. (5)	110. (1)	221. (5)	222. (1)	223. (5)	224. (4)	225. (1)
111. (2)	112. (4)	113. (1)	114. (5)	115. (3)					

EXPLANATORY ANSWERS

1. (4) First and third Premises are Universal Affirmative (A-type). Second Premises is Particular Affirmative (I-type).

Some rivers are houses.



AH houses are lakes

We know that, $I + A \Rightarrow I$ - type Conclusion
Thus, our derived conclusion would be :

"Some rivers are lakes."

Conclusion I and III form complementary pair.
Therefore, either I or III follows.

Conclusion IV is converse of the second Premise.

2. (1) First Premise is Particular Affirmative (I-type).
Second Premise is Universal Negative (E-type).

Third Premise is Universal Affirmative (A-type).

Some tigers are goats.



No goat is rat.

We know that, $I + E \Rightarrow O$ -type Conclusion.
Thus, our derived Conclusion would be :
"Some tigers are not rats."

All dogs are rats.



No rat is goat.

We know that, $A + E \Rightarrow E$ -type Conclusion
Thus, our derived Conclusion would be :
"No dog is goat".

This is the Conclusion II.

Conclusion I and IV form complementary pair.
Therefore, either I or IV follows.

3. (3) First and second Premises are Particular Affirmative (I-type).

Third Premise is Universal Affirmative (A-type).

Some flowers are roads



All roads are vehicles

We know that, $I + A \Rightarrow I$ -type Conclusion
Thus, our derived Conclusion would be :
"Some flowers are Vehicles".

Conclusion II is the Converse of this Conclusion.

4. (2) All the three Premises are Universal Affirmative (A-type).

All fruits are books.



All books are buses.

We know that, $A + A \Rightarrow A$ -type Conclusion
Thus, our derived Conclusion would be :
"All fruits are buses".

This is the Conclusion IV.

Conclusion II is the Converse of the second Premise.

Conclusion III is the Converse of the first Premise.

5. (5) All the three Premises are particular Affirmative (I-type).

We know that no Conclusion follows from Particular Premises.

6. (2) Statement B is the cause and Statement A is its effect.

Owing to agitation against high fees, the Government appointed a committee to look into the matter.

7. (2) Statement B is the cause and Statement A is its effect. Owing to reduction in the procurement price of Kharif crops, the farmers are reluctant to sell their Kharif crops to Government agencies.

8. (2) Statement B is the cause and Statement A is its effect. Owing to inability of the small banks to withstand the competitions of the bigger banks, the Reserve Bank of India put restrictions on few small banks.

9. (4) Both the statements A and B are effects of independent causes.
10. (5) Both the statements are effects of some common cause.
- (11-15): (i) There are altogether 29 elements in the sequence.
(ii) There are 12 letters in the sequence.
(iii) There are 9 symbols in the sequence.
(iv) There are 8 digits in the sequence.
(v) The middle element, i.e., 15th from either end is '7'

11. (3)

SYMBOL	LETTER
DIGIT	SYMBOL

 or

LETTER	SYMBOL
DIGIT	SYMBOL

Such combinations are :

@ C	4 +	+ V	6 ?
-----	-----	-----	-----

? F	9 *	* M
-----	-----	-----

Symbols +, ?, * satisfy both the conditions.

12. (1) C → 7th from left

@ → 6th from left

R → 8th from left

L → 5th from left

3 → 7th from right

6 → 6th from right

Y → 8th from right

? → 5th from right

Similarly,

H → 13th from left

2 → 11th from left

↑ → 10th from left

C → 7th from left

J → 7th from right

4 → 11th from right

+ → 10th from right

3 → 7th from right

13. (4) @ $\xrightarrow{-2}$ 8 $\xrightarrow{+5}$ β $\xrightarrow{-1}$ R

7 $\xrightarrow{-2}$ H $\xrightarrow{+5}$ \$ $\xrightarrow{-1}$ J

2 $\xrightarrow{-2}$ β $\xrightarrow{+5}$ # $\xrightarrow{-1}$ H

? $\xrightarrow{-2}$ 3 $\xrightarrow{+5}$ * $\xrightarrow{-1}$ 9

But,

4 $\xrightarrow{-2}$ J $\xrightarrow{+6}$ 3 $\xrightarrow{-1}$ Y

14. (4)

NUMBER	LETTER
LETTER	SYMBOL

 or

LETTER	NUMBER
SYMBOL	LETTER

Such combinations are:

6 L @	5 H #	7 E	J \$
-------	-------	-----	------

15. (4)

LETTER	NUMBER
NUMBER	SYMBOL

Such combinations are:

4 +	Y 3	6 ?	F 9 *
-----	-----	-----	-------

(16-20):

Candidate	CRITERIA				
	(i)	(ii)	(iii)	(iv)	(v)
Sunil	x	x	✓	x	x
Usha	x	✓	✓	x	✓
Mohan	x	x	x	✓	✓
Subhash	x	x	✓	x	✓
Aruna	✓	x	✓	x	✓

16. (3) Sunil Arora is eligible under (iii) only.

17. (5) Usha Natarajan is eligible under (ii), (iii) and (v) only.

18. (2) Mohan Srivastava is eligible under (iv) and (v) only.

19. (4) Subhash Saxena is eligible under (iii) and (v) only.

20. (3) Aruna Basak is eligible under (i) and (iii) only.

21. (4)

P A R
R P B
→ → → +1

E N T
T E O
→ → → +1

M O S
S M P
→ → → +1

T I Y
Y T M
→ → → +1

S I M
M S J
→ → → +1

P L E
E P M
→ → → +1

M O T
T M P
→ → → +1

H E R
R H D
→ → → +1

S U N
N S V
→ → → +1

D A Y
Y D B
→ → → +1

22. (5) M A T U R E L Y

↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

7 2 4 1 5 8 6 3

R A M T E

↓ ↓ ↓ ↓ ↓

5 2 7 4 8

L	E	T	R	A	M	E	R	U	T	A
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
6	8	4	5	2	7	8	5	1	4	2
T	Y	U	A	L	E	M	U	T	R	A
↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
4	3	1	2	6	8	(6)	7	1	4	5
					8					

(23-25):

INPUT:

1	2	3	4	5	6	7	8
these	icons	were	taken	out	from	the	sea

Pass Codes**Batch I: 10.00 a.m. to 11.00 a.m.**

6	8	7	5	4	3	2	1
from	sea	the	out	taken	were	icons	these

Batch II: 11.00 a.m. to 12.00 noon

6	2	1	3	4	5	7	8
from	icons	these	were	taken	out	the	sea

Batch III: 12.00 noon to 1.00 p.m.

6	2	5	8	7	4	3	1
from	icons	out	sea	the	taken	were	these

Batch IV: 1.00 p.m. to 2.00 p.m.

6	2	5	8	1	3	4	7
from	icons	out	sea	these	were	taken	the

Rest Hour: 2.00 p.m. to 3.00 p.m.**Batch V: 3.00 p.m. to 4.00 p.m.**

6	2	5	8	1	7	4	3
from	icons	out	sea	these	the	taken	were

Batch VI: 4.00 p.m. to 5.00 p.m.

6	2	5	8	1	7	3	4
from	icons	out	sea	these	the	were	taken

23. (5) Batch I: 10.00 a.m. to 11.00 a.m.

6	8	7	5	4	3	2	1
he	so	used	to	sell	the	surplus	items

Therefore, Input

1	2	3	4	5	6	7	8
items	surplus	the	sell	to	he	used	so

24. (5) Batch IV: 1.00 p.m. to 2.00 p.m.

6	2	5	8	1	3	4	7
back	go	here	people	who	settle	want	to

Batch V: 3.00 p.m. to 4.00 p.m.

6	2	5	8	1	7	4	3
back	go	here	people	who	to	want	settle

25. (5) Input

1 four	2 of	3 the	4 following	-5 five	6 form	7 a	8 group
-----------	---------	----------	----------------	------------	-----------	--------	------------

Batch V: 3.00 p.m. to 4.00 p.m.

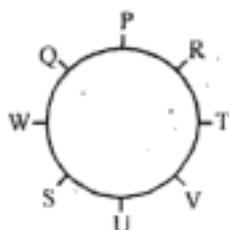
6 form	2 of	5 five	8 group	1 four	7 a	4 following	3 the
-----------	---------	-----------	------------	-----------	--------	----------------	----------

- 26. (1)** There may be many assumptions and hence many sets of answers.

- 27. (1)** A E I O



- (28-30)** Sitting arrangement of P, Q, R, S, T, U, V, and W

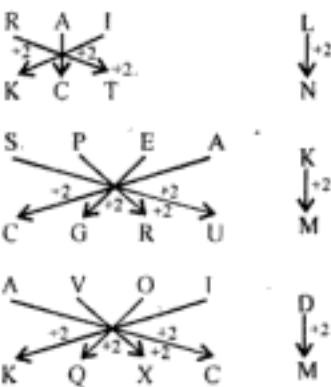


- 28. (3)** S is to the immediate right of W.

- 29. (1)** R and V are not neighbours.

- 30. (3)** Q is to the immediate left of W.

- 31. (4)**



- 32. (2)**
- | | | | | | | | | | | | |
|---|----|----|----|---|---|---|----|----|---|----|----|
| 1 | 16 | 16 | 18 | 5 | 8 | 5 | 14 | 19 | 9 | 15 | 14 |
| A | P | P | R | E | H | E | N | S | I | O | N |
| | ↑ | ↑ | | | | | | | | | |

- 33. (1) From Statement I**

P is mother of M and N.

Q is sister-in-law of N.

Therefore, Q is wife of M.

Thus, M is brother of N.

From Statement II

M and N are children of S.

R is the sister-in-law of M and daughter-in-law of S.

Therefore, R is the wife of N.

The sex of M is not clear.

M is either brother or sister of N.

- 34. (3) From Statement I**

Let the number of students securing First Class = x

∴ Number of students who failed = x

Number of students who passed = 3x

According to question

$$3x + x = 120$$

$$\therefore x = \frac{120}{4} = 30$$

From Statement II

Number of girls in the class = $10 \times 4 = 40$

∴ Number of boys in the class = $120 - 40 = 80$

∴ Number of students who secured First Class

$$= 10 + \frac{80}{4} = 10 + 20 = 30$$

- 35. (5) From Statement I**

Te [Le] Pa [Na] →

You eat many mangoes

Le Na [Da] →

You sell mangoes

Thus, code for 'mangoes' may be either 'Le' or 'Na'.

From Statement II

Ge Na Se [La Le] → they

[eat bananas] and mangoes

Ne De [Le La] → who others eat bananas

Thus, code for 'mangoes' is either 'Ge', 'Na' or 'Se'

From both the statements the code for 'mangoes' is 'Na'.

36. (2) Argument I makes no sense. If the income of farmers are not adequate they cannot be brought under the net of taxation as per rules governing the Income Tax Act. Therefore, argument I is not strong.

Argument II seems to be strong. In order to increase revenue, the Government should bring more persons under the net of taxation. Argument III is also strong.

37. (5) Only Arguments I and II are strong. The Government is keen to introduce the VAT (Value Added Tax) which is the system envisaging simplified tax structure. A single tax will check the double taxation and manufacturers as well as traders will be encouraged to pay taxes.

Argument III is an example. We know that citing an example is bad argumentation.

38. (5) Only Argument II is strong.

39. (1) None of the Arguments is strong. The use of term 'only' in the Argument I makes it invalid.

40. (1) None of the Arguments is strong.

41. (5) Consider the following line of the passage : "However, agriculture and allied activities account for less than even one-fourth of the total GDP".

Therefore, the inference is definitely false.

42. (5) It is mentioned in the passage that the structure of industrialisation has changed over the years and not over the past few decades.

43. (1) The inference is definitely true.

44. (5) Consider the following line of the passage : "So, it is less likely that aggregate economic growth will be adversely affected if rainfall is scanty".

45. (5) It is mentioned in the passage that the component of the manufacturing sector that depends on agriculture for the supply of intermediates is not very high. This does not imply that manufacturing sector is independent of agricultural sector.

- (46-50): (i) P \$ Q means $P \leq Q$.

Therefore, P is either greater than or equal to Q.

- (ii) P * Q means $P \neq Q$ and $P \neq Q$,

Therefore, $P > Q$

- (iii) P @ Q means $P > Q$.

Therefore, $P < Q$ and $P = Q$; $P \leq Q$

- (iv) P # Q means $P > Q$ and $P \neq Q$

Therefore, $P = Q$

- (v) P % Q means $P > Q$ and $P \neq Q$

Therefore, $P < Q$

$\$ \Rightarrow \geq$	$* \Rightarrow >$	$@ \Rightarrow \leq$
$\# \Rightarrow =$	$\% \Rightarrow <$	

46. (5) Statements

$$T * K \Rightarrow T > K$$

$$K \# D \Rightarrow K = D$$

$$\text{Therefore, } T > K = D$$

Conclusions

$$\text{I. } D \% M \Rightarrow D < M : \text{True}$$

$$\text{II. } M * K \Rightarrow M > K : \text{True}$$

47. (1) Statements

$$R @ J \Rightarrow R \leq J$$

$$M \# J \Rightarrow M = J$$

$$D * M \Rightarrow D > M$$

$$\text{Therefore, } R \leq J = M < D$$

Conclusions

$$\text{I. } D * J \Rightarrow D > J : \text{True}$$

$$\text{II. } R \# M \Rightarrow R = M : \text{Not True}$$

48. (3) Statements

$$F \$ M \Rightarrow F \geq M$$

$$N @ M \Rightarrow N \leq M$$

$$N \% W \Rightarrow N < W$$

$$\text{Therefore, } F \geq M \geq N < W$$

Conclusions

$$\text{I. } F \# N \Rightarrow F = N : \text{Not True}$$

$$\text{II. } N \% F \Rightarrow N < F : \text{Not True}$$

N is either smaller than or equal to F.

49. (3) Statements

$$B \# J \Rightarrow B = J$$

$$J @ D \Rightarrow J \leq D$$

$$F \$ D \Rightarrow F \geq D$$

Therefore, $B = J \leq D \leq F$

Conclusions

I. $B \# F \Rightarrow B = F$: Not True

II. $F * B \Rightarrow F > B$: Not True

B is either smaller than or equal to F.

50. (4) Statements

$Z \% T \Rightarrow Z < T$

$T * N \Rightarrow T > N$

$H \$ N \Rightarrow H \geq N$

Therefore, $Z < T > N \leq H$

Conclusions

I. $H * Z \Rightarrow H > Z$: Not True

II. $T * Z \Rightarrow T > Z$: Not True

(51-55): On the basis of given information and conclusions drawn from them, we can construct the following chart:

Employee	SHIFT			Holiday
	I	II	III	
P	✓	✗	✗	Monday
Q	✗	✓	✗	Tuesday
R	✓	✗	✗	Wednesday
S	✗	✗	✓	Sunday
T	✗	✓	✗	Thursday
V	✗	✗	✓	Friday
Z	✓	✗	✗	Saturday

51. (1) P, R, and Z work in Shift I.

52. (3) Q has off day on Tuesday.

53. (3) The combination P-Wednesday-I is not correct.

54. (2) Z has off day immediately on the next day of V's off day.

55. (2) V works in Shift III.

56. (1) (i) $20 \# 10 * 2 = m$.

$$\text{or, } m = (20 - 10) \div 2$$

$$\text{or, } m = \frac{10}{2} = 5$$

$$\text{(ii)} \quad 5 * 6 \lambda 4 = ?$$

$$\text{or, } ? = 24 - 5 = 19$$

57. (2) (i) $60 \$ 20\% 4 = n$

$$\text{or, } n = (60 + 20) \times 4$$

$$\text{or, } n = 80 \times 4 = 320$$

$$\text{(ii)} \quad 8 @ n \odot 10 = ?$$

$$\begin{aligned} \text{or, } ? &= \frac{320}{10} + 8 \\ &= 32 + 8 = 40 \end{aligned}$$

58. (1) (i) $15 * 12 \lambda 5 = p$

$$\text{or, } p = 60 - 15 = 45$$

$$\text{(ii)} \quad 4 \$ 12 \% p = ?$$

$$\text{or, } ? = (4 + 12) \times 45$$

$$\text{or, } ? = 16 \times 45 = 720$$

59. (4) (i) $16 @ 12 \odot 8 = z$

$$\text{or, } z = 16 + \frac{12}{8}$$

$$\text{or, } z = 16 + \frac{3}{2} = \frac{35}{2}$$

$$\text{(ii)} \quad z \# 20 * 8 = ?$$

60. (4) (i) $80 * 15 \lambda 8 = t$

$$\text{or, } t = (15 \times 8) - 80$$

$$\text{or, } t = 120 - 80 = 40$$

$$\text{(ii)} \quad t \$ 5 \% 8 = ?$$

$$\text{or, } ? = (40 + 5) \times 8$$

$$\text{or, } ? = 45 \times 8 = 360$$

Option (1)

$$40 \# 40 * 10$$

$$\text{or, } (40 - 40) \div 10 = 0$$

Option (2)

$$40 \$ 40 \% 10$$

$$\text{or, } (40 + 40) \times 10 = 800$$

Option (3)

$$40 @ 40 \odot 10$$

$$\text{or, } \frac{40}{10} + 40 = 4 + 40 = 44$$

Option (4)

$$40 * 40 \lambda 10$$

$$\text{or, } (40 \times 10) - 40$$

$$\text{or, } 400 - 40 = 360$$

61. (5) First Set of Numbers

15 11

$$\Rightarrow 15 - 11 = 4 \text{ [Rule (ii)]}$$

4 20

$$\Rightarrow 4 \times 20 = 80 \text{ [Rule (iv)]}$$

8 400

$$\Rightarrow \frac{400}{80} = 5 \text{ [Rule (iii)]}$$

Second Set of Numbers

8 12

$$\Rightarrow 8 \times 12 = 96 \text{ [Rule (iv)]}$$

$$\begin{array}{r} 96 \quad 10 \\ \Rightarrow 96 \times 10 = 960 \text{ [Rule (iv)]} \\ \text{Now, } \frac{960}{5} = 192 \end{array}$$

62. (2) First set of Numbers

$$\begin{array}{r} 40 \quad 30 \\ \Rightarrow 40 \times 30 = 1200 \text{ [Rule (iv)]} \\ 1200 \quad 3600 \\ \Rightarrow \frac{3600}{1200} = 3 \text{ [Rule (iii)]} \end{array}$$

Second Set of Numbers

$$\begin{array}{r} 15 \quad 24 \\ \Rightarrow 15 + 24 = 39 \text{ [Rule (i)]} \\ 39 \quad 17 \\ \Rightarrow 39 - 17 = 22 \text{ [Rule (ii)]} \\ \text{Now, } 3 + 22 = 25 \end{array}$$

63. (4) First Set of Numbers

$$\begin{array}{r} 8 \quad 16 \\ \Rightarrow \frac{16}{8} = 2 \text{ [Rule (ii)]} \\ 2 \quad 16 \\ \Rightarrow \frac{16}{2} = 2 \text{ [Rule (iii)]} \\ 8 \quad 14 \\ \Rightarrow 8 \times 14 = 112 \text{ [Rule (iv)]} \end{array}$$

Second Set of Numbers

$$\begin{array}{r} 13 \quad 11 \\ \Rightarrow 13 - 11 = 2 \text{ [Rule (ii)]} \\ 2 \quad 12 \\ \Rightarrow 2 \times 12 = 24 \text{ [Rule (iv)]} \\ 24 \quad 144 \\ \Rightarrow \frac{144}{24} = 6 \text{ [Rule (iii)]} \end{array}$$

$$\text{Now, } 112 - 6 = 106$$

64. (2) First Set of Numbers

$$\begin{array}{r} 13 \quad 11 \\ \Rightarrow 13 - 11 = 2 \text{ [Rule (ii)]} \\ 2 \quad 4 \\ \Rightarrow \frac{4}{2} = 2 \text{ [Rule (iii)]} \end{array}$$

Second Set of Numbers

$$\begin{array}{r} 17 \quad 13 \\ \Rightarrow 17 - 13 = 4 \text{ [Rule (ii)]} \\ 4 \quad 12 \\ \Rightarrow 4 \times 12 = 48 \text{ [Rule (iv)]} \\ \text{Now, } 48 \times 2 = 96 \end{array}$$

65. (1) First Set of Numbers

$$\begin{array}{r} 19 \quad 15 \\ \Rightarrow 19 - 15 = 4 \text{ [Rule (ii)]} \\ 4 \quad 12 \\ \Rightarrow 4 \times 12 = 48 \text{ [Rule (iv)]} \end{array}$$

Second set of Numbers

$$\begin{array}{r} 15 \quad 12 \\ \Rightarrow 15 + 12 = 27 \text{ [Rule (i)]} \\ 27 \quad 23 \\ \Rightarrow 27 - 23 = 4 \text{ [Rule (ii)]} \\ 4 \quad 16 \\ \Rightarrow \frac{16}{4} = 4 \text{ [Rule (iii)]} \\ \text{Now, } 48 - 4 = 44. \end{array}$$

66. (4) From element first to second the top and the left designs rotate through 135° anti-clockwise, the lower design rotates through 45° anti-clockwise while the right design rotates through 45° clockwise.

67. (5) From element first to second all the designs move two steps in anti-clockwise direction and the first and the last designs interchange positions and the first design is replaced with a new design. Similarly, the second and the fifth designs interchange positions and one of these two designs is replaced with a new design. Again the third and the fourth designs interchange positions and one of these two designs is replaced with a new design.

68. (2) From element first to second all the designs move one step in anti-clockwise direction and one side is added to each design.

69. (3) From element first to second the lowermost design shifts into middle after being inverted, the middle design moves downward and attached figure is replaced with a new design. The attached figure of the top most design is also replaced with a new design after being inverted.

70. (1) From element first to second all the designs move in anti-clockwise direction and one design each of the left and right designs is deleted while one design is added to the upper and lower designs.
71. (1) In the subsequent figures the pre-existing leaflet rotates through 45° anti-clockwise and also moves in anti-clockwise direction and after every two figures two half-leaflets are added.
72. (2) In the subsequent figures all the pre-existing designs move one step in clockwise direction and the first design is replaced with a new design in the first step and then a new design is added at the second position after every two figures.
73. (3) In the subsequent figures the arrow moves respectively two steps and one step in alternate manner in anti-clockwise direction and one new design is added in front of the pre-existing design and behind the pre-existing design alternately.
74. (5) In the first step one-fourth parts of two circles get shaded and in the next step one circle becomes white. The shading pattern inside the circle proceed in clockwise direction while the circles get shaded in anti-clockwise direction.
75. (5) In the subsequent figures one design moves to opposite sector and the other in anti-clockwise direction while the third design remains static.
76. (5) $? = 125\% \text{ of } 4875 + 88.005 \times 14.995$
 $= 125\% \text{ of } 4900 + 88 \times 15$
 $= \frac{125 \times 4900}{100} + 1320$
 $= 6125 + 1320$
 $= 7445 = 7415$
77. (4) $? = 127.001 \times 7.998 + 6.05 \times 4.001$
 $= 127 \times 8 + 6 \times 4$
 $= 1016 + 24 = 1040$
78. (2) $? = 1010 + 36 + 187 \times 20.05$
 $= 1008 + 36 + 187 \times 20$
[1010 = 1008 which is a multiple of 36]
 $= 28 + 3740$
 $= 3768 = 3770$

79. (1) $? = 16^{7.5} + 8^{3.5} + 2^{7.5}$
 $= \frac{16^{7.5}}{8^{3.5} \times 2^{7.5}} = \frac{(2^4)^{7.5}}{(2^3)^{3.5} \times 2^{7.5}}$
 $= \frac{(2)^{4 \times 7.5}}{(2)^{3 \times 3.5} \times 2^{7.5}} = \frac{2^{30}}{(2)^{10.5} \times 2^{7.5}}$
 $= \frac{2^{30}}{(2)^{10.5+7.5}} = \frac{2^{30}}{2^{18}}$
 $= 2^{30-18} = 2^{12} = 8^4$
80. (5) Let the present ages of Seema and Naresh be $5x$ and $7x$ years respectively.
According to the question,
- $$\frac{5x+5}{7x+5} = \frac{3}{4}$$
- $\Rightarrow 21x + 15 = 20x + 20$
- $\Rightarrow x = 20 - 15 = 5$
- $\therefore \text{Naresh's present age} = 7x \text{ years}$
- $= 7 \times 5 = 35 \text{ years}$
81. (1) Let the ten's digit be x
 $\therefore \text{Unit's digit} = 2x$
 $\therefore \text{Original number} = 10x + 2x = 12x$
On interchanging the digits, the new number
 $= 10 \times 2x + x = 21x$.
According to question.
 $21x - 12x = 27 \Rightarrow 9x = 27$
 $\Rightarrow x = \frac{27}{9} = 3$
 $\therefore \text{Original number} = 12x$
 $= 12 \times 3 = 36$.
82. (1) The committee can be formed in the following ways:
(1) By selecting 2 men and 1 woman
(2) By selecting 1 man and 2 women
(3) By selecting 3 women
 $\therefore \text{Total number of ways of forming the committee}$
 $= 3c_2 \times 4c_1 + 3c_1 \times 4c_2 + 4c_3$
 $= 3 \times 4 + 3 \times 6 + 4$
 $= 12 + 8 + 4$
 $= 34$

83. (3) 3 girls can be seated in a row in $3!$ ways.
 Now, in the 4 gaps 4 boys can be seated in $4!$ ways. Hence, the number of ways in which no two boys sit adjacent to each other
 $= 3! \times 4! = 6 \times 24 = 144$

84. (2) Let the amount invested in scheme A be Rs. x.

$$\therefore \frac{x \times 12 \times 2}{100} = 3600$$

$$\Rightarrow x = \frac{3600 \times 100}{24} = \text{Rs. } 15000$$

Total investment = Rs. 35000

$$\begin{aligned}\therefore \text{Amount invested in scheme B} \\ = \text{Rs. } (35000 - 15000) \\ = \text{Rs. } 20000\end{aligned}$$

$$\therefore \text{C.I.} = P \left[\left(1 + \frac{R}{100} \right)^T - 1 \right]$$

$$\begin{aligned}= 20000 \left[\left(1 + \frac{R}{100} \right)^2 - 1 \right] \\ = 20000 (1.21 - 1) \\ = 20000 \times 0.21 = \text{Rs. } 4200\end{aligned}$$

85. (3) Required salary

$$\begin{aligned}= 10000 \left(1 + \frac{50}{100} \right)^4 \\ = 10000 \times (1.5)^4 = \text{Rs. } 50625\end{aligned}$$

86. (2) The given series is based on the following pattern:

$$\begin{array}{ccccccc}3 & 19 & 103 & 439 & 1381 & 2887 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ x6+1^3 & x5+2^3 & x4+3^3 & x3+4^3 & x2+5^3 & \end{array}$$

$$\begin{array}{lll}(\text{a}) & (\text{b}) \\ 5 & 31 & 163 \\ \uparrow & \uparrow \\ x6+1^3 & x5+2^3 & \end{array}$$

Hence, 163 will come in place of (b).

87. (1) The given series is based on the following pattern:

$$13 = 4 \times 1 + 1 \times 9$$

$$40 = 13 \times 2 + 2 \times 7$$

$$135 = 40 \times 3 + 3 \times 5$$

$$552 = 135 \times 4 + 4 \times 3$$

$$2765 = 552 \times 5 + 5 \times 1$$

Similarly,

$$(\text{a}) = 2 \times 1 + 1 \times 9 = 11$$

$$(\text{b}) = 11 \times 2 + 2 \times 7 = 36$$

$$(\text{c}) = 36 \times 3 + 3 \times 5 = 123$$

Hence, 123 will come in place of (c).

88. (3) The given series is based on the following pattern:

$$\begin{array}{cccccc}5 & 12 & 4 & 10 & 3 & 8 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2+2 & +2-2 & \times 2+2 & +2-2 & \times 2+2 & \end{array}$$

Similarly,

$$\begin{array}{cccc}(\text{a}) & (\text{b}) & (\text{c}) & (\text{d}) \\ 6 & 14 & 5 & 12 \\ \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2+2 & +2-2 & \times 2+2 & +2-2 \end{array}$$

Hence, 4 will come in place of (d).

89. (4) The given series is based on the following pattern:

$$\begin{array}{cccccc}3 & 13 & 37 & 87 & 191 & 401 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2+7 & \times 2+11 & \times 2+13 & \times 2+17 & \times 2+19 & \end{array}$$

[7, 11, 13, 17, 19 are consecutive prime numbers]

Similarly,

$$\begin{array}{cccc}(\text{a}) & (\text{b}) & (\text{c}) & (\text{d}) \\ 1 & 9 & 29 & 71 \\ \uparrow & \uparrow & \uparrow & \uparrow \\ \times 2+7 & \times 2+11 & \times 2+13 & \times 2+17 \end{array}$$

Hence, 159 will come in place of (d).

90. (3) The given series is based on the following pattern:

$$\begin{array}{cccccc}8 & 4 & 6 & 15 & 52.5 & 236.25 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \times 0.5 & \times 1.5 & \times 2.5 & \times 3.5 & \times 4.5 & \end{array}$$

Similarly,

$$\begin{array}{cccc}(\text{a}) & (\text{b}) & (\text{c}) \\ 12 & 6 & 9 \\ \uparrow & \uparrow & \uparrow \\ \times 0.5 & \times 1.5 & \times 2.5 \end{array}$$

Hence, 22.5 will come in place of (c).

91. (2) From Statement I.

$$\begin{aligned}\text{Total weight of 60 students} \\ = 60 \times 42 = 2520 \text{ kg}\end{aligned}$$

From Statement III,

$$\begin{aligned}\text{Total weight of all the girls} &= 1144 \text{ kg} \\ \therefore \text{Total weight of all the boys} \\ &= 2520 - 1144 = 1376 \text{ kg.}\end{aligned}$$

From Statement II,

$$\text{Number of boys} = \frac{1376}{42} = 32$$

$$\therefore \text{Number of girls} = 60 - 32 = 28$$

From Statement III,

$$\begin{aligned}\text{Average weight of girls} &= \frac{1144}{28} \\ &= 40.86 \text{ kg}\end{aligned}$$

92. (1) From Statements I and III, S.P. can be obtained.

From Statements II and III.

Let the S.P. be Rs. x .

After 10% discount,

$$SP = 90\% \text{ of } x = \frac{9}{10}x$$

$$\therefore \frac{9}{10}x - 15000 = 1200$$

$$\Rightarrow 9x = 150000 + 12000$$

$$\Rightarrow x = \frac{162000}{9} = \text{Rs. } 18000$$

From statements I and II,

Let the C.P. = Rs. x

$$\therefore S.P. = \frac{120}{100}x = \text{Rs. } \frac{6x}{5}$$

Now, after 10% discount on

$$\text{Rs. } \frac{6x}{5}, \text{ New S.P.} = \frac{90}{100} \times \frac{6x}{5} = \text{Rs. } \frac{54x}{50}$$

$$\therefore \frac{54x}{50} - x = 1200$$

$$\Rightarrow 54x - 50x = 50 \times 1200$$

$$\Rightarrow x = \frac{50 \times 1200}{4} = \text{Rs. } 15000$$

Hence S.P. can be calculated.

$$\therefore S.P. \text{ is Rs. } \frac{6x}{5}$$

93. (5) From Statement I.

Let the length of the train be x metre.

$$\therefore \text{Length of platform} = \frac{3x}{2} \text{ metre}$$

From Statement II,

$$\text{Speed of train} = \frac{\frac{3x}{2} + x}{25}$$

$$= \frac{5x}{50} = \frac{x}{100} \dots (i)$$

But x is not known. Hence, we proceed.

From Statement III,

$$\text{Speed of train} = \frac{x}{10} \dots (ii)$$

Clearly, we reach at no unique conclusion.

94. (4) From Statement I.

80% children speak languages other than Hindi.

From Statement II,

$$\text{Total number of children} = \frac{44 \times 100}{80} = 55$$

95. (5) From Statements I and II.

Volume of tank = XY cubic metres

From statements II and III.

$$\text{Radius of base} = \frac{Y}{2}$$

$\therefore \text{Volume} = \pi \times (\text{radius})^2 \times \text{height}$

From Statements I and III.

Area of base = X sq. metres.

Hence, radius can be determined.

Height = $2 \times$ radius.

Clearly, after knowing height and area of base, volume can be determined.

96. (5) I. $a^2 + 5a + 6 = 0$

$$\Rightarrow a^2 + 2a + 3a + 6 = 0$$

$$\Rightarrow a(a+2) + 3(a+2) = 0$$

$$\Rightarrow (a+2)(a+3) = 0$$

$$\Rightarrow a = -2 \text{ or } -3$$

II. $b^2 + 3b + 2 = 0$

$$\Rightarrow b^2 + 2b + b + 2 = 0$$

$$\Rightarrow b(b+2) + 1(b+2) = 0$$

$$\Rightarrow (b+1)(b+2) = 0$$

$$\Rightarrow b = -1 \text{ or } -2$$

Clearly, $a \leq b$

97. (1) I. $2a^2 + 3a + 1 = 0$

$$\Rightarrow 2a^2 + 2a + a + 1 = 0$$

$$\Rightarrow 2a(a+1) + 1(a+1) = 0$$

$$\Rightarrow (a+1)(2a+1) = 0$$

$$\Rightarrow a = -1 \text{ or } -\frac{1}{2}$$

II. $12b^2 + 7b + 1 = 0$

$$\Rightarrow 12b^2 + 3b + 4b + 1 = 0$$

$$\Rightarrow 3b(4b+1) + 1(4b+1) = 0$$

$$\Rightarrow (3b+1)(4b+1) = 0$$

$$\Rightarrow b = -\frac{1}{3} \text{ or } -\frac{1}{4}$$

Clearly, $a < b$

98. (3) I. $a^2 = 4 \Rightarrow a = \pm 2$

II. $b^2 = 9 \Rightarrow b = \pm 3$

99. (2) I. $6a^2 - 25a + 25 = 0$

$$\Rightarrow 6a^2 - 15a - 10a + 25 = 0$$

$$\Rightarrow 3a(2a-5) - 5(2a-5) = 0$$

$$\Rightarrow (3a-5)(2a-5) = 0$$

$$\Rightarrow a = \frac{5}{3} \text{ or } \frac{5}{2}$$

II. $15b^2 - 16b + 4 = 0$

$$\Rightarrow 15b^2 - 10b - 6b + 4 = 0$$

$$\Rightarrow 15b(3b-2) - 2(3b-2) = 0$$

$$\Rightarrow (5b-2)(3b-2) = 0$$

$$\Rightarrow b = \frac{2}{5} \text{ or } \frac{2}{3}$$

Clearly, $a > b$

100. (4) I. $4a^2 - 20a + 21 = 0$

$$\Rightarrow 4a^2 - 14a - 6a + 21 = 0$$

$$\Rightarrow 2a(2a-7) - 3(2a-7) = 0$$

$$\Rightarrow (2a-7)(2a-3) = 0$$

$$\Rightarrow a = \frac{7}{2} \text{ or } \frac{3}{2}$$

II. $2b^2 - 5b + 3 = 0$

$$\Rightarrow 2b^2 - 3b - 2b + 3 = 0$$

$$\Rightarrow b(2b-3) - 1(2b-3) = 0$$

$$\Rightarrow (b-1)(2b-3) = 0$$

$$\Rightarrow b = 1 \text{ or } \frac{2}{3}$$

Clearly $a \geq b$

101. (5) Required average percentage

$$= \frac{64 + 56 + 58 + 72 + 77 + 68}{6}$$

$$= \frac{395}{6} = 65.8$$

102. (3) Marks obtained by A in:

Subject P $\rightarrow 68\% \text{ of } 70$

$$= \frac{70}{100} \times 70 = 49$$

$$\text{Subject Q} \rightarrow \frac{84}{100} \times 80 = 67$$

$$\text{Subject R} \rightarrow \frac{77}{100} \times 120 = 92$$

$$\text{Total marks} = 49 + 67 + 92 = 208$$

Marks obtained by F in:

Subject S $\rightarrow 68\% \text{ of } 125$

$$= \frac{68}{100} \times 125 = 85$$

$$\text{Subject T} \rightarrow \frac{68 \times 75}{100} = 51$$

$$\text{Subject U} \rightarrow \frac{71 \times 150}{100} = 105$$

$$\therefore \text{Total marks} = 85 + 51 + 105 = 241$$

Required percentage

$$= \frac{208}{241} \times 100 = 85$$

103. (3) Required overall percentage of marks

$$= \frac{49 + 79 + 62 + 85 + 56 + 76}{6}$$

$$= \frac{407}{6} = 67.83$$

104. (2) Marks obtained by D in:

$$\text{Subject P} \rightarrow \frac{75 \times 70}{100} = 52.50$$

$$\text{Subject Q} \rightarrow \frac{85 \times 80}{100} = 68$$

$$\text{Subject R} \rightarrow \frac{82 \times 120}{100} = 98.40$$

$$\text{Subject S} \rightarrow \frac{88 \times 125}{100} = 110$$

$$\text{Subject T} \rightarrow \frac{72 \times 75}{100} = 54$$

$$\text{Subject U} \rightarrow \frac{78 \times 150}{100} = 117$$

$$\therefore \text{Total marks} = 52.50 + 68 + 98.40 + 110 + 54 + 117 = 499.9$$

105. (4) Average percentage

$$= \frac{84 + 79 + 81 + 85 + 66 + 70}{6} = \frac{465}{6}$$

\therefore Required average marks

$$= \frac{465}{6} \% \text{ of } 80 = \frac{465 \times 80}{6 \times 100} = 62$$

106. (3) Items produced = 45000

Cost per hundred = Rs. 6000

$$\therefore \text{Total cost} = \text{Rs. } \frac{45000 \times 6000}{100}$$

= Rs. 27 lakhs

107. (5) Required average cost

$$4500 + 3500 + 6000 +$$

$$= \text{Rs. } \frac{5500 + 5000 + 4000}{6}$$

$$= \text{Rs. } \frac{28500}{6} = \text{Rs. } 4750$$

108. (2) Cost of items produced by Company:

$$A \rightarrow \text{Rs. } \left(\frac{35000 \times 4500}{100} \right)$$

= Rs. 15.75 lakhs

$$B \rightarrow \text{Rs. } \left(\frac{50000 \times 3500}{100} \right)$$

= Rs. 17.5 lakhs

$$\therefore \text{Total cost} = \text{Rs. } (15.75 + 17.5) \text{ lakhs} \\ = \text{Rs. } 33.25 \text{ lakhs}$$

109. (5) Total number of items produced by all companies

$$= (35 + 50 + 45 + 30 + 40 + 60) \text{ thousands} \\ = 260000$$

110. (1) = New number of items produced by company

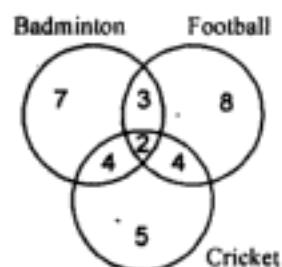
$$D = \left(\frac{130}{100} \times 30 \right) \text{ thousands}$$

= 39 thousands

Cost per hundred = Rs. 5500

$$\therefore \text{Total cost} = \text{Rs. } \left(\frac{39000 \times 5500}{100} \right) \\ = \text{Rs. } 21.45 \text{ lakhs.}$$

Venn-Diagram for questions 111–115:



111. (2) Number of football players = $3 + 2 + 4 + 8 = 17$

112. (4) Number of badminton as well as cricket players = $4 + 2 = 6$

113. (1) Number of children

$$= 7 + 3 + 2 + 4 + 8 + 4 + 5 = 33$$

114. (5) Number of badminton players = $7 + 3 + 2 + 4 = 16$

115. (3) Number of football as well as cricket players = $2 + 4 = 6$

116. (4) Total expenditure on Accounts department = 14% of Rs. 12 crores

$$= \text{Rs. } \frac{14 \times 12}{100} \text{ crores}$$

= Rs. 1.68 crores

= Rs. 16.8 millions

117. (2) Total expenditure on medical

= 13% of Rs. 12 crores

$$= \text{Rs. } \frac{13 \times 12}{100} \text{ crores}$$

= Rs. 1.56 crores

= Rs. 15600000

\therefore Expenditure per employee

$$= \frac{15600000}{1200} = \text{Rs. } 13000$$

118. (3) Total expenditure on salary of employees

$$= 30\% \text{ of Rs. } 12 \text{ crores}$$

$$= \text{Rs. } \frac{30 \times 120000000}{100}$$

$$= \text{Rs. } 36000000$$

∴ Expenditure on Marketing employees

$$= 17\% \text{ of } 36000000$$

$$= \text{Rs. } (17 \times 3600000)$$

$$= \text{Rs. } 6120000$$

$$= \text{Rs. } 6.12 \text{ millions}$$

119. (5) Amount spent on electricity

$$= 11\% \text{ of Rs. } 12 \text{ crores}$$

$$= \text{Rs. } \frac{11 \times 120}{100} \text{ millions}$$

$$= \text{Rs. } 13.2 \text{ millions}$$

120. (1) Expenditure on telephone in computer department

$$= 12\% \text{ of } 8\% \text{ of Rs. } 12 \text{ crores}$$

$$= \text{Rs. } \frac{12}{100} \times \frac{8}{100} \times 120 \text{ millions}$$

$$= \text{Rs. } 1.152 \text{ millions}$$

$$= \text{Rs. } 11.52 \text{ lakhs}$$

121. (4) Average sales

$$= \left(\frac{25 + 45 + 38 + 52 + 47 + 55}{6} \right) \text{ million tons}$$

$$= \frac{262}{6} = 43.7 \text{ million tons}$$

∴ Required cost = Rs. (1.8×43700) lakhs

$$= \text{Rs. } 78660 \text{ lakhs}$$

$$= \text{Rs. } 78600 \text{ lakhs}$$

122. (1) Total sales in the year 2000

$$= (41 + 50 + 43 + 57 + 39 + 64) \text{ million tons}$$

$$= 294 \text{ million tons}$$

Total sales in the year 2003

$$= (43 + 55 + 49 + 63 + 42 + 62) \text{ million tons}$$

$$= 314 \text{ million tons}$$

∴ Required percentage

$$= \frac{294}{314} \times 100 = 93.63\%$$

123. (2) Total sales in 1998

$$= (25 + 45 + 38 + 52 + 47 + 55) \text{ million tons}$$

$$= 262 \text{ million tons}$$

Total sales in 2003 = 314 million tons

$$\therefore \% \text{ Increase} = \frac{314 - 262}{262} \times 100$$

$$= 19.85 = 20$$

124. (5) Average sales of state:

$$B \rightarrow \frac{45 + 39 + 50 + 48 + 53 + 55}{6}$$

$$= \frac{290}{6} \text{ millions tons}$$

$$C \rightarrow \frac{38 + 40 + 43 + 43 + 46 + 49}{6}$$

$$= \frac{259}{6} \text{ million tons}$$

∴ Required ratio

$$= \frac{290}{6} : \frac{259}{6} = 290 : 260 = 29 : 26$$

125. (3) Percentage decrease in 1999

$$= \frac{47 - 46}{47} \times 100 = 2.12$$

Percentage decrease in 2000

$$= \frac{46 - 39}{46} \times 100 = 15.22$$

Percentage decrease in 2001

$$= \frac{37 - 32}{32} \times 100 = 17.95$$

Percentage increase in 2002

$$= \frac{37 - 32}{32} \times 100 = 15.625$$

Percentage increase in 2003

$$= \frac{42 - 37}{37} \times 100 = 13.51$$

Hence, the percentage decrease was maximum in the year 2001.

129. (2) Web-casting means to transmitting the audio and video on the net. It allows both audio & video and user can see it on wide N/w.
133. (1) Date command allows the user to see the current date and modify that.
137. (4) Batch files are a group of commands which can run one after another. When there is need to run more than one command, then this type of Batch files created.
142. (2) When file deleted in windows operating system go directly to recycle bin, which is a garbage collector to contain all the deleted items in it.
147. (3) Format can be done on hard drive also. So that all the matter should be clean and new. One can be done on that OR it is upon engineer's choice.
153. (1) All and control section have special purpose location called "Register"; they stored every bit in these specified area.
154. (3) Modem converts analog signal to digital and vice-versa, so that a communication between the computer and user should be maintained in a good manner.
157. (4) Yes, of course; Networking using fibre optic cable because it is not an easy task to be done as its name implies "Network". It spreads over a wide area; so, if need a medium that must be flexible and reliable over long distances along with good output. And fibre optic has these qualities. That's why N/wing using fibre optic cable.
161. (4) Yes, conference/Net meeting enables live real time conference. It includes audio, video and textual form of communication.
166. (1) E-commerce uses EDI [Electronic Data Interchange] because in business, organisation, the data sent over long distances should be safe and accurate and by EDI this can be done.
184. (1) The word 'conviction' is a Noun and it is preceded by 'no'. Hence, 'had no previous conviction' is the suitable replacement. Altogether, the statement is in Indirect Speech. Here the Principal clause is in Past Tense; hence, the Reported Speech must also be in Past Tense.
185. (2) Adverbial form of the word 'substantial' should be used. An Adverb is a word which modifies the meaning of a verb, an Adjective or another Adverb. Hence, 'have increased' substantially is the correct replacement.
186. (2) The use of preposition 'in' instead of 'of' is appropriate to make the sentence correct.
188. (3) The sentence is adversative which expresses contrast between two statements. Hence, for success but disown is the correct replacement.
189. (4) The sense of sentence shows a habitual action. Hence, Simple Present Tense will be used. Also the Subordinate clause is in Present Tense; the Principal clause should be in Present Tense too.
190. (1) Here, the word 'Primary' has been wrongly used. Its adverbial form will be appropriate.
193. (2) The word 'patience' is Noun. An Adjective is used with a Noun to add something for its meaning. Hence, 'requires extraordinary patience' is the correct usage.
194. (4) The word 'imminent' means likely to happen very soon. It does not make any sense in the sentence. Hence, 'comprising eminent' is the correct replacement.
195. (4) The word 'hoist' means raise something to a higher position. Clearly, a dinner party is never hoisted, but hosted.
207. (5) The word 'advent' has been used in the sense of word 'arrival'.
209. (2) The word 'burgeoning' means growing or developing rapidly. Its antonym is retarding.



PROBATIONARY OFFICERS' EXAM. (ALLAHABAD BANK)

Original Question Paper – Exam. Held on 14-03-2004

GENERAL AWARENESS

- 1. India's share in total world trade is around**
1) 6% 2) 5%
3) 4% 4) 2%
5) less than 1%
- 2. What is the percentage of India's export and import together as compared to its GDP ? About —**
1) 20% 2) 25%
3) 30% 4) 33%
5) 39%
- 3. The fiscal deficit of India recently rose to the level of 40 per cent. Which of the following was the main reason for the same?**
1) Union Govt, decided to utilize the proceeds of the State Debt Swap Scheme to repay its own debt to National Small Savings Fund.
2) Inflation remained at a very unstable level and was fluctuating sharply almost every week
3) India decided to repay some of its external debt before time
4) Interest rates on various schemes were not steady and were fluctuating from single to double digits
5) None of these
- 4. As per the recent announcement made by the Minister of Finance, several changes in financial/economic field have taken place. Which of the following is NOT TRUE in this regard ?**
1) No I-T returns for those who draw salary upto Rs. 1.5 lakh a year
2) Air travel is now cheaper
3) Customs duty on cell phones is hiked by 7.5%
4) Pensioners who do not have taxable income need not file returns
5) All Income Tax offices will be interconnected to be on line by June 2004
- 5. Which of the following foreign banks has recently started its corporate advisory service in India ?**
1) Citibank
2) ABN Amro
3) Standard Chartered Bank
4) Bank of America
5) None of these
- 6. Which of the following statements about India's position in the field of foodgrains is NOT TRUE?**
A. India's foodgrain's stock at present is about 30 million tonnes.
B. India is not able to feed it's huge population as population is growing faster than food production.
C. India is a foodgrain exporting country.
1) Only A 2) Only B
3) Only C 4) Only A and B
5) All are true
- 7. Which of the following statements about the external debt of India at present is/are TRUE ?**
A. As on March 2003, its external debt was at the level of about 104 billion dollars.
B. India's debt to GDP ratio is at the level of 20 per cent.
C. External loans amounting to about 3 billion dollars are prepaid in 2002-03 and another 3 billion dollars are being prepaid in 2003-04.
1) Only A 2) Only B
3) Only C 4) All true
5) All are not true
- 8. INS TRISHUL was recently inducted in the Indian Navy. It was built in –**
1) Russia 2) France
3) Britain 4) Germany
5) Australia

9. The Reserve Bank of India has recently made it mandatory for the large Cooperative Banks to set up an Investment Fluctuation Reserve (IFR). It is mandatory only for those banks whose deposit base is –
- Over Rs. 50 crores
 - Over Rs. 100 crores
 - Over Rs. 150 crores
 - Over Rs. 250 crores
 - Anything between Rs. 25 and 50 crores
10. The Reserve Bank of India has now given permission to which of the following to undertake insurance business as corporate agents ?
- Grameen Banks
 - Urban Cooperative Banks
 - Cooperative Banks being run by employees cooperative societies
 - Non-Banking Financial Companies
 - None of these
11. Who amongst the following has suggested to adopt the integrated regional development concept for reducing the migration to big cities in India ?
- Reserve Bank of India
 - Planning Commission of India
 - Union Ministry of Urban Development
 - World Bank
 - Asian Development Bank
12. Why was the name of Sonal Mansing recently in news ?
- She has become a nominated member of the Rajya Sabha
 - She has decided to join BJP as she is willing to become active in politics
 - She has taken over as the Chairperson of the Sangeet Natak Akademi
 - She is the new Chairperson of the Film Censor Board
 - None of these
13. Sharath Kamal and Poulomi Ghatak both were in news recently as they have won the National Championship Titles in the field of –
- Lawn Tennis
 - Table Tennis
 - Badminton
 - Golf
 - Snooker
14. Parvez Musharraf has decided to quit which of the following post(s) by the end of December 2004 ?
- President of Pakistan.
 - Post of the Army Chief.
 - Head of the Commission appointed to redraft the Constitution of the Pakistan.
- Only A
 - Only C
 - Only A and B both
 - Only B
 - None of these
15. Which of the following factors does not put its direct impact on the state of Indian Economy as it is at present ?
- Its dependence on the monsoon for agricultural output
 - Consistent and steady growth in industrial production
 - Its labelling as advanced country in the field of Nuclear Science as it is a non-signatory of NPT
 - Its consistently growing foreign exchange reserves and becoming a creditor to IMF
 - Remarkable growth in exports and expansion of its share in Service Sector
16. India is planning to become the host of Olympic games to be held in —
- 2008
 - 2012
 - 2016
 - 2020
 - None of these
17. India is a regular contributor to the International Monetary Fund (IMF). As per the quota subscription obligations to the fund, India has to increase its subscription in hard currency from present 11% to —
- 15%
 - 20%
 - 25%
 - 30%
 - None of these
18. As per the credit policy announced on 3rd November 2003, the REPO rate would be —
- 6%
 - 5%
 - 4.5%
 - 4%
 - 3.5%

- 19. Which of the following is/are the main reason (s) owing to which SEBI has allowed institutions to venture into Margin Trading shares ?**
- It will stop Badla trading system which is an illegal trade practice.
 - It will help small investors to participate in the stock market activities as only those who are investing maximum Rs. 3 lakhs will be allowed for the same.
 - Big financial institutes will be able to function as non-banking firms are not allowed to go for margin trading.
- 1) Only A 2) Only B
 3) Only C 4) Only A and B
 5) None of these
- 20. Which of the following countries in the Gulf region has submitted the information about its nuclear programme to International Atomic Energy Agency recently ?**
- Iran 2) Saudi Arabia
 - Kuwait
 - United Arab Emirates
 - None of these
- 21. The Bombay Stock Exchange has decided to permit listing of the shares issued by Small Companies also. What should be the minimum capital of such small companies to become eligible for such listing ?**
- Rs. 15 crores 2) Rs. 8 crores
 - Rs. 5 crores 4) Rs. 10 crores
 - None of these
- 22. In order to strengthen Small Scale Sector, the Govt. has given instructions to the banks that no collateral security should be taken if the loan amount is —**
- Upto Rs. 10 lakhs
 - Rs. 15 lakhs 3) Rs. 25 Lakhs
 - Rs. 30 lakhs 5) Rs. 1 crore
- 23. The 'Standard and Poor's Rating Services' had revised the outlook for Indian Banking System. Which of the following is TRUE in this regard ?**
- The rating has changed from 'Stable' to 'Negative'
- 2) The rating has changed from 'Negative'
 • to 'Stable'
 3) Earlier it was 'positive ++' but now it is 'Positive A+'
 4) The rating was earlier 'Negative' but now it is 'Positive'
 5) None of these
- 24. Which of the following oil companies has put highest bid to acquire about 100 oil outlets in Sri Lanka ?**
- HPCL 2) IBCL
 - ONGC 4) Reliance
 - None of these
- 25. Madan Lal Khurana was recently in news as he has taken over as the —**
- Governor of Madhya Pradesh
 - Governor of Chhattisgarh
 - Governor of Rajasthan
 - India's permanent representative in UNO
 - Indian High Commissioner to U.K.
- 26. Which of the following is TRUE about the equity buy back by the banks ?**
- Government is not in favour of the buy back of equity by the banks.
 - Some banks are planning to buy back a part of "Govt.'s equity stake in them as a part of capital restructuring.
 - The RBI is lowering down the capital adequacy norms for bank so that a greater stability may be imparted to the financial system.
- 1) Only A 2) Only A and C
 3) Only C 4) Only B and C
 5) Only A and B
- 27. Which of the following countries has recently sent a new multinational crew to the Space Station ?**
- USA 2) China
 - Russia 4) France
 - None of these
- 28. Which of the following banks/organization has established a fully owned consultancy known as NABCONS recently ?**
- RBI 2) NABARD
 - SBI 4) NIBM
 - None of these

- 29. NABARD has recently slashed its rate of interest on the refinance to Cooperative Banks and RRBs. This in turn will help which of the following in getting cheaper loans ?**
- 1) Farmers and rural artisans
 - 2) Small Scale Sector
 - 3) Sugar mills
 - 4) Tractor Manufacturing Units
 - 5) None of these
- 30. 'Sultan Azlan Shah' Cup is associated with which of the following games ?**
- 1) Hockey
 - 2) Chess
 - 3) Badminton
 - 4) Football
 - 5) None of these
- 31. As per the reports published in the newspapers rising US debts is threat to world economy. Which of the following is NOT TRUE in this regard ?**
- A. IMF report questions wisdom of Bush administration's tax cuts.
 - B. US external debt could be equal to 40 per cent of its total economy soon.
 - C. US budget deficit this year is expected to exceed \$1000 billion.
- 1) Only B 2) Only C
 - 3) Only A and B 4) Only A
 - 5) All are not true
- 32. Rosanna Davison who was adjudged 'Miss World' recently is a citizen of –**
- 1) China 2) Canada
 - 3) Ireland 4) Russia
 - 5) France
- 33. The Human Right's Day is celebrated every year on—**
- 1) 10th December
 - 2) 10th January
 - 3) 5th November
 - 4) 15th November
 - 5) 20th December
- 34. England which became the first country from the northern hemisphere to win the Rugby Union World Cup won the final match against —**
- 1) Australia
 - 2) Germany
 - 3) Italy
 - 4) Brazil
 - 5) Russia
- 35. Which of the following countries recently stopped 673 state-run newspapers as it's effort to switch over to a free market economy and reduction in government expenditure ?**
- 1) China 2) Russia
 - 3) Slovakia 4) Myanmar
 - 5) None of these
- 36. European Community has fixed a ceiling on its member countries that their budget deficit should not exceed which of the following limits of total GDP ?**
- 1) 1% 2) 1.5%
 - 3) 2% 4) 2.5%
 - 5) 3%
- 37. Which of the following two stations are the first and last stations connected by the restarted 'Samjhauta Express' ?**
- 1) Lahore - Amritsar
 - 2) New Delhi - Lahore
 - 3) Atari - Lahore
 - 4) Islamabad - New Delhi
 - 5) None of these
- 38. Which of the following is TRUE about India's position in the field of the production of oil and gas ?**
- A. India is self-sufficient in refining crude oil.
 - B. India depends on imports for 90% of its oil requirement.
 - C. India's total requirement of crude oil is 114 million tonnes/year,
- 1) Only A and C 2) Only A
 - 3) Only B 4) Only C
 - 5) None of these
- 39. India along with which of the following countries is holding a joint air combat exercise in Gwalior ?**
- 1) Britain
 - 2) USA
 - 3) Russia
 - 4) France
 - 5) None of these

- 40.** Which of the following countries is planning to send an astronaut to Mars by 2014?
- USA
 - Russia
 - France
 - China
 - None of these
- 41.** Which of the following SAARC countries refused to have an extradition treaty with India proposed recently ?
- Nepal
 - Bangladesh
 - Bhutan
 - Sri Lanka
 - Pakistan
- 42.** As decided earlier, the USA is likely to handover the power to Iraqis by the end of—
- December 2004
 - June 2004
 - September 2004
 - January 2005
 - None of these
- 43.** The Foreign Direct Investment (FDI) in the field of insurance is likely to be increased to which of the following level from the present 26%?
- 49%
 - 51%
 - 65%
 - 75%
 - None of these
- 44.** Oil and Natural Gas Commission (ONGC) is planning to bring its public issue offering a part of government equity in it. What will be the stake being offered by the issue to the public?
- 20%
 - 15%
 - 10%
 - 30%
 - None of these
- 45.** Which of the following is a camera manufacturing company and was in news recently?
- Eastman Kodak
 - Dunlop
 - Samsung
 - Intel
 - None of these
- 46.** The inflation rate in which of the following countries is reported to have reached to an abnormally high level of 620% ? (As per press reports) :
- Zimbabwe
 - Ethiopia
 - Sudan
 - South Africa
 - None of these
- 47.** 'Dwikhandita' is a book written by —
- Ashapurna Devi
 - Sunil Gangopadhyay
 - Mahashweta Devi
 - Ramla Das
 - None of these
- 48.** 'Subroto Cup' is associated with which of the following games?
- Hockey
 - Football
 - Badminton
 - Cricket
 - None of these
- 49.** The export of Tea from India is in a bad shape these days. How much was the decline in the first six months period of the fiscal 2002-03?
- 30%
 - 35%
 - 40%
 - 25%
 - None of these
- 50.** The minimum support price (MSP) of wheat announced by the Ministry of Agriculture is fixed at which of the following for the Rabi season?
- Rs. 450/quintal
 - Rs. 560/quintal
 - Rs. 630/quintal
 - None of these

ENGLISH LANGUAGE

Directions (Qns. 51-60): Read the following passage carefully and answer the questions given below it. Certain words/expressions are given in bold in the passage to help you locate them while answering some of the questions.

The early Orientalist Movement and the rapid growth of English as the principal medium of instruction after the 1830s, considerably enhanced the educated Indian's familiarity with their tradition. But, perhaps equally importantly, it also fostered a sense of shared culture. Rammohan may have been the first Hindu to have used the term 'Hinduism', thereby indicating some degree of cultural or perhaps even ethnic essentialisation. These developments were also facilitated by the coming of the printing press. Over time, the success of print-culture enormously increased the importance of written texts within a tradition that had hitherto greatly rallied on orality. Perhaps this strengthened the hands of some writers who, particularly towards the end of the nineteenth century, began to emphasize a common cultural base for Hinduism. In the religious sphere, for example, there was now a far greater emphasis on the Vedas as a unified source of Hinduism, the prime determinant of a 'Hindu' identity.

The success of the printing press is also tied up with certain extremely important shifts that began to occur in the social and religious thinking of early nineteenth century Bengal. Hitherto, texts considered to be the most important in Hinduism had been zealously guarded by a class of Brahmins which prevented their wider circulation. Women and Sudras, for example, had traditionally been barred from Vedic knowledge. More importantly, these Hindu scriptures were composed in Sanskrit which meant that many other social groups besides women and Sudras had practically no access to the Vedas. Early reformers like Rammohan addressed these issues simultaneously. On the one hand, Rammohan bravely went against tradition by attempting to open up Vedic knowledge to all

these who might be moved to seek it, irrespective of their social origin. This was the impulse behind his publication of Bengali translations of Hindu religious classics like the Vedanta Sutra (Brahma Sutra), and subsequently, some important Upanishads. This is also precisely why Rammohan became such a controversial figure.

51. Why did Rammohan became a controversial figure?

- 1) He created awareness and sensitivity about our cultural heritage.
- 2) He advocated that patriotism is a natural instinct among people.
- 3) He advocated that racial identity is crucial for political independence.
- 4) He opposed the move of opening the first Sanskrit College in Bengal.
- 5) He opened up the knowledge of Vedas to all the sections of the society.

52. Which of the following factors contributed to the enhancement of educated Indian's familiarity with his tradition ?

- 1) Critical reappraisal of the sources of his knowledge about tradition.
- 2) The early criticism and negation of the Orientalist movement.
- 3) Awareness about the true spirit of Hinduism.
- 4) The rapid growth of English as the main medium of instruction.
- 5) Realisation of the importance and acquisition of Hindu identity.

53. Which of the following important shifts is the author of the passage talking about in the early 19th Century Bengal?

- 1) Emphasising the common cultural base for Hinduism.
- 2) Fostering a sense of shared culture.
- 3) Studying carefully the religious classics like Vedanta Sutra and Upanishad.
- 4) Social and religious thinking of the people.
- 5) Political and economic thinking of the people.

- 54. Why were the important texts of Hinduism not widely circulated ?**
- 1) They were not easily available and cheaply priced.
 - 2) People were not aware of the true knowledge contained in these texts.
 - 3) They were ardently protected by the religious priests and preachers.
 - 4) Orthodox thinking was more dominant than the rational thinking.
 - 5) Ethics essentialisation was gravely missing among the people.
- 55. Which of the following 'developments' is hinted at in the sentence of the passage? 'These developments were ... printing press'**
- 1) Patriotism among people.
 - 2) Sense of shared culture.
 - 3) Growing harshness of the British rule.
 - 4) Economic inequality among people.
 - 5) Orientalist scholars attaining mastery over English.
- 56. Which of the following statements is NOT TRUE in the context of the passage ?**
- 1) Rammohan published the Bengali translation of Vedanta Sutra.
 - 2) Vedas were considered as the prime determinant of 'Hindu' identity.
 - 3) Orientalist Movement made Indians familiar with their tradition.
 - 4) The tradition of orality had given way to the print-culture.
 - 5) Brahmins were mainly responsible for the far and widespread of the texts of Hinduism.
- 57. The early Orientalist Movement and English as the medium of instruction...**
- 1) provided tacit but strong support to the liberation movements.
 - 2) increased understanding and awareness of the Indian education system.
 - 3) developed a sense of shared culture among the Indians.
 - 4) made Indians adequately emotional and nostalgic.
 - 5) encouraged students to obtain admissions in English medium educational institutions.
- 58. Choose the word which is SIMILAR in meaning of the word 'fostered' as used in the passage.**
- 1) Promoted
 - 2) Appreciated
 - 3) Widened
 - 4) Aligned
 - 5) Involved
- 59. Choose the word which is MOST OPPOSITE in meaning of the word 'moved' as used in the passage.**
- 1) Deterred
 - 2) Obliged
 - 3) Abandoned
 - 4) Motivated
 - 5) Adhered
- 60. Which of the following strengthened the hands of some writers towards the end of the 19th Century ?**
- 1) Rammohan's use of the term 'Hinduism' for the first time.
 - 2) Advent of the printing press and realisation of the importance of written texts.
 - 3) Rammohan's insistence on the study of Indian texts and traditions.
 - 4) Opening of Vedic knowledge to all the sections of the society.
 - 5) Interference of the foreigners in the Indian cultural tradition.

Directions (Qns. 61-70) : Pick out the most effective pair of words from the five given pairs of words to make the sentences meaningfully complete.

- 61. Just as a well-made brick does nothing when it stands alone, well-managed individuals have usefulness until they are integrated into a whole.**
- 1) Great ... dedicated
 - 2) Superior ... working
 - 3) Critical ... superior
 - 4) Minimal... synergic
 - 5) Multiple ... critical

62. Each person on the team must understand and in the team goals and be to their achievement.

- 1) Involve manifested
- 2) Commit.... projected
- 3) Advocate absorbed
- 4) Support... possessive
- 5) Share dedicated.

63. My boss always expects me to drop whatever I'm doing to to his latest whim. He never thinks about the problem this me.

- 1) Akin forces
- 2) Cater... causes
- 3) Confine directs
- 4) Accede throws
- 5) Consent.... disturbs

64. Even if clouds of sorrow.... our lives sometimes, we should not feel....

- 1) Endanger encouraged.
- 2) Colour... engulfed
- 3) Damage revamped
- 4) Blinds accountable.
- 5) Darken depressed.

65. Books never.... us even when all fair-weather friends have deserted us. They the dark clouds of gloom from our minds and increase our happiness.

- 1) Desert... dispel
- 2) Abandon augment
- 3) Destroy devalue
- 4) Corner.... distribute
- 5) Irritate provoke

66. Price rise is the of modern world. Prices of essential commodities go on rising every day despite the and genuine efforts of the government.

- 1) Value directed
- 2) Bane professed
- 3) Destiny concerned
- 4) Cruelty projected
- 5) Damage ambitious

67. Friendship is the silken tie of love and which binds two persons. It is a priceless possession of a man who sweetness of life.

- 1) Affection contains
- 2) Kindness focuses
- 3) Esteem imparts
- 4) Durability injects
- 5) Warmth generates.

68. The one-act play is a.... form of literature. It is different from drama as it usually deals with a single dramatic situation and aims at a single effect.

- 1) Distinct.... producing
- 2) Peculiar.... introducing
- 3) Short... attributing
- 4) Manifest.... developing
- 5) Profound creating

69. Many managers think of ethics as a question of personal a confidential matter between individuals and their

- 1) Scruples conscience.
- 2) Convenience predilection
- 3) Bonafide surrounding
- 4) Strategy families
- 5) Direction abilities.

70. As the future of our democracy greatly depends upon the younger generations, let us to inject in them the consciousness of the responsibility that... on them.

- 1) Persuade downs
- 2) Encourage imposes
- 3) Postulate.... sets
- 4) Strive devolves
- 5) Join percolates.

Directions (Qns. 71-75) : Choose the word which is **SIMILAR in meaning of the word given in **BOLD** and mark that as your answer.**

71. Pensive

- 1) Avaricious
- 2) Ceremonious
- 3) Contemplative
- 4) Precise
- 5) Formal

72. Servitude

- 1) Appearance
- 2) Advantage
- 3) Succession
- 4) Bondage
- 5) Insulation.

73. Yearn

- 1) Damage
- 2) Abandon
- 3) Confront
- 4) Accept
- 5) Craving

74. Candour

- 1) Emotion
- 2) Concern
- 3) Frankness
- 4) Vocation
- 5) Detraction

75. Babble

- 1) Virulence
- 2) Gossip
- 3) Source
- 4) Advantage
- 5) Civility

Directions (Qns. 76-80) : Choose the word which is **MOST OPPOSITE** in meaning of the word given in **BOLD** and mark that as your answer.

76. Ennable

- 1) Precede
- 2) Brighten
- 3) Embroil
- 4) Consume
- 5) Degrade

77. Luminous

- | | |
|-----------------|--------------|
| 1) Lucid | 2) Bountiful |
| 3) Auspicious | 4) Gloomy |
| 5) Affectionate | |

78. Reverence

- 1) Slumber
- 2) Consequence
- 3) Contempt
- 4) Firmness
- 5) Deposition

79. Weary

- 1) Invigorated
- 2) Exorbitant
- 3) Opulent
- 4) Baleful
- 5) Extensive

80. Frugal

- 1) Enraged
- 2) Extravagant
- 3) Farcical
- 4) Replete
- 5) Novel

Directions (Qns. 81-85) : Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is your answer. If there is no error, the answer is '5'. (Ignore errors of punctuation, if any).

81. When I heard his knock (1)/I went to the door and opened it, (2)/ but I did not recognize him (3)/ at first because I was not wearing my glasses. (4)/ No error. (5)

82. We had heard the engine roar (1)/ as the plane began to move (2)/ and we saw the people (3)/ on the ground waving good bye. (4)/ No error. (5)

83. This building was to have finished (1)/ by end of last year; (2)/ but there has been so many strikes (3)/ that it is not finished yet. (4)/ No error. (5)

84. I reached the house exhausted (1) and was very disappointed (2)/ when I learnt that (3)/ my father has just left. (4)/ No error. (5)

85. Everyone now knows that (1)/ the debate on education had been (2)/ postponed so that the government (3)/ can discuss the latest crisis, (4)/ No error (5).

Directions (Qns. 86-90): Rearrange the following seven sentences (A), (B), (C), (D), (E), (F) and (G) in the proper sequence to form a meaningful paragraph: then answer the questions given below them.

- A) It is not even because grubbing for toots is good discipline
- B) Moreover he cannot learn what he ought to know about language from talking about his own
- C) Nor is it because they will gain satisfaction in recognising the Latin roots of the world satisfaction

- D) It is because they cannot understand their own language unless they have studied another
- E) The reason is not so they can sell things to the Brazilians, or study German medical books, or appreciate those beauties of Homer which are lost in translation
- F) Our citizens will have to learn at least one foreign language
- G) The native of any country is immersed in his own language and never sees it as a linguistic structure.

86. Which of the following will be the FIRST sentence?

- | | |
|------|------|
| 1) C | 2) A |
| 3) F | 4) G |
| 5) D | |

87. Which of the following will be the SECOND sentence?

- | | |
|------|------|
| 1) E | 2) C |
| 3) D | 4) B |
| 5) G | |

88. Which of the following will be the LAST sentence?

- | | |
|------|------|
| 1) D | 2) F |
| 3) C | 4) B |
| 5) A | |

89. Which of the following will be the FOURTH sentence?

- | | |
|------|------|
| 1) G | 2) B |
| 3) D | 4) E |
| 5) A | |

90. Which of the following will be the SIXTH sentence?

- | | |
|------|------|
| 1) C | 2) G |
| 3) F | 4) E |
| 5) B | |

Directions (Qns. 91-100): In the following passage there are blanks, each of which has been numbered 91 to 100. There numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Since 1879 there has been a ... (91) ... science of psychology, and one important part of it is directly ... (92) ... with the problem of understanding human personality. In fact, the fundamental objective of the study of personality is to ... (93) ... significantly to our understanding of human beings from within the ... (94) ... of the science of psychology. Scientific psychology (95) to work with relatively simple, straightforward concepts that are open to ... (96) ... test and to use research methods that are as sound and ... (97) ... as possible. Most psychologists are ... (98) ... that these scientifically based concepts and methods will ultimately ... (99) ... to be of most value in ... (100) ... the complex nature of human behaviour.

- | | |
|---------------------|-----------------|
| 91. 1) Appreciative | 2) Voluminous |
| 3) Possible | 4) Durable |
| 5) Recognisable | |
| 92. 1) Measurable | 2) Concerned |
| 3) Accountable | 4) Responsible |
| 5) Submerged | |
| 93. 1) Conjecture | 2) Correlate |
| 3) Configure | 4) Contribute |
| 5) Convert | |
| 94. 1) Attributes | 2) Association |
| 3) Framework | 4) Control |
| 5) Contribution | |
| 95. 1) Prefers | 2) Adjusts |
| 3) Directs | 4) Encompasses |
| 5) Views | |
| 96. 1) Profound | 2) Flexible |
| 3) Stable | 4) Empirical |
| 5) Large | |
| 97. 1) Precise | 2) Evocative |
| 3) Elongated | 4) Regulatory |
| 5) Mandatory | |
| 98. 1) Exhibited | 2) Convinced |
| 3) attributed | 4) Corroborated |
| 5) Professed | |
| 99. 1) Extend | 2) Project |
| 3) Develop | 4) Making |
| 5) Prove | |
| 100. 1) Celebrating | 2) Advocating |
| 3) Unravelling | 4) Ascribing |
| 5) Involving | |

QUANTITATIVE APTITUDE

Qns. 1-10: What will come in place of the question mark (?) in the following questions?

101. $12\frac{3}{4} \times 15\frac{1}{7} \times 4\frac{5}{11} = ?$

1) $120\frac{15}{14}$

2) $120\frac{15}{77}$

3) $180\frac{1}{2}$

4) 185.5

5) None of these

102. $100 + 50 \times 2 = ?$

1) 300

2) 200

3) 75

4) 150

5) None of these

103. 65% of ? = 20% of 422.50

1) 84.5

2) 139.425

3) 130

4) 200

5) None of these

104. $\sqrt{53824} = ?$

1) 232

2) 202

3) 332

4) 242

5) None of these

105. $\frac{10^7 \times 10^2}{10^4} = 10^?$

1) 13

2) 10

3) 1

4) 5

5) None of these

106. $\frac{3}{5} \text{ of } \frac{4}{7} \text{ of } \frac{5}{9} \text{ of } \frac{21}{24} \text{ of } 504 = ?$

1) 96

2) 69

3) 109

4) 63

5) None of these

107. $0.002 \times 0.5 = ?$

1) 0.01

2) 0.001

3) 0.0001

4) 0.1

5) None of these

108. $1\frac{3}{4} + 5\frac{1}{3} + 3\frac{2}{5} = ?$

1) $10\frac{2}{5}$

2) $10\frac{29}{60}$

3) $9\frac{29}{60}$

4) $9\frac{2}{5}$

5) None of these

109. $1000^7 + 10^{18} = ?$

1) 1000

2) 10

3) 100000

4) 100

5) None of these

110. $1000 \div 50 \div 5 = ?$

1) 1000

2) 20

3) 10

4) 5

5) None of these

111. In how many different ways can the letters of the word BANKING be arranged in such a way that the vowels always come together?

- 1) 540
- 2) 360
- 3) 240
- 4) 120
- 5) None of these

112. In how many different ways can five boys sit on eight chairs?

- 1) 120
- 2) 56
- 3) 40
- 4) 336
- 5) None of these

113. Srikanth is younger than Ram by four years. If their ages are in the respective ratio of 7 : 9, how old is Srikanth?

- 1) 18 years
- 2) 16 years
- 3) 28 years
- 4) Cannot be determined
- 5) None of these

114. A sum doubles in five years with simple interest. What is the rate of interest?

- 1) 20
- 2) 10
- 3) 15
- 4) Cannot be determined
- 5) None of these

115. A car starts with a speed of 50 kmph with its speed increasing every half-an-hour by 10 kmph. What will be the total distance covered by it in three hours?

- 1) 180 km
- 2) 260 km
- 3) 250 km
- 4) Cannot be determined
- 5) None of these

116. Which of the following fractions is in ascending order?

- 1) $\frac{5}{8}, \frac{5}{7}, \frac{3}{4}, \frac{6}{7}, \frac{7}{8}$
- 2) $\frac{5}{8}, \frac{5}{7}, \frac{6}{7}, \frac{3}{4}, \frac{7}{8}$

- 3) $\frac{7}{8}, \frac{3}{4}, \frac{6}{7}, \frac{5}{7}, \frac{5}{8}$
- 4) $\frac{3}{4}, \frac{5}{7}, \frac{6}{7}, \frac{5}{8}, \frac{7}{8}$
- 5) None of these

117. The difference between a number and its two-fifth is 510. What is 10% of the number?

- 1) 12.75
- 2) 204
- 3) 85
- 4) Cannot be determined
- 5) None of these

118. What will be the difference in simple and compound interest @ 10% per annum on the sum of Rs. 1000 after four years?

- 1) Rs. 40.40
- 2) Rs. 64.10
- 3) Rs. 31
- 4) Rs. 32.10
- 5) None of these

119. 10 women can complete a work in 7 days and 10 children take 14 days to complete the work. How many days will 5 women and 10 children take to complete the work?

- 1) 5
- 2) 7
- 3) 3
- 4) Cannot be determined
- 5) None of these

120. A train running at the speed of 60 km/hour crosses a pole in 9 seconds. What is the length of the train?

- 1) 120 metres
- 2) 180 metres
- 3) 324 metres
- 4) Cannot be determined
- 5) None of these

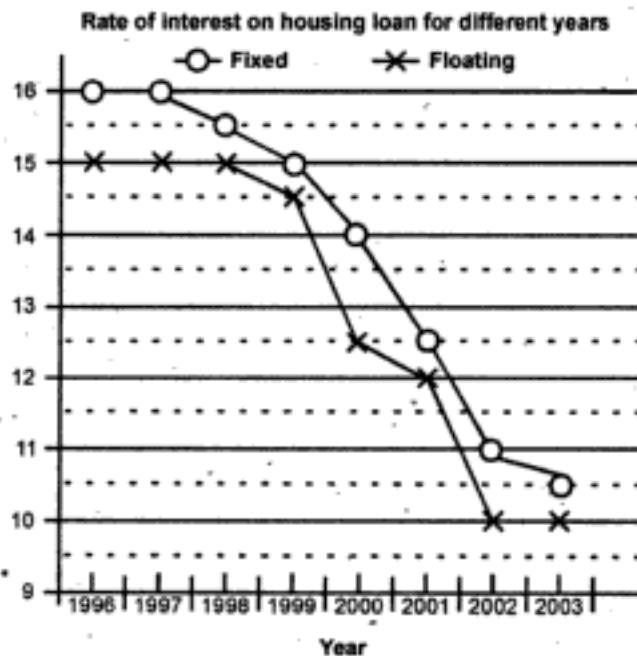
121. The difference between a two-digit number and the number obtained by interchanging the two digits is 63. Which is the smaller of the two numbers?

- 1) 29
- 2) 92
- 3) 70
- 4) Cannot be determined
- 5) None of these

122. A product when sold with 10% rebate on the listed price gave a profit of Rs. 70. What was its cost price?

- 1) Rs. 700
- 2) Rs. 350
- 3) Rs. 200
- 4) Cannot be determined
- 5) None of these

Qns. 123-127: Study the following graph to answer the given questions.



123. For how many years was the difference in fixed and floating rate more than 0.5?

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) None of these

124. For the given years, what is the difference in the average rate of interest between fixed and floating?

- 1) 0.8125
- 2) 0.5
- 3) 0.4575
- 4) 0.2525
- 5) None of these

125. Which of the following statement is NOT true?

- 1) The floating rate was always lower than the fixed for all the given years
- 2) The number of years the rate changed was less for floating than that of fixed

- 3) Each year there was a decline in the fixed rate compared to the previous year
- 4) In neither of the rates was there any increase from that of the previous year
- 5) The decline pattern of the fixed and the floating was not the same

126. Which year is the difference in rate of interest between fixed and floating the maximum?

- 1) 2002
- 2) 2001
- 3) 1996 and 1997
- 4) 2003
- 5) None of these

127. For fixed rate, which year is the per cent decrease from the previous year the higher?

- 1) 2002
- 2) 2001
- 3) 2000
- 4) 2003
- 5) None of these

Qns. 28-33: What will come in place of the question mark(?) in the following series?

128. 140 147 138 ? 136 151 134

- 1) 129
- 2) 149
- 3) 145
- 4) 147
- 5) None of these

129. 18 19 37 56 93 ?

- 1) 112
- 2) 167
- 3) 115
- 4) 139
- 5) None of these

130. 2 4 8 32 ? 8192

- 1) 36
- 2) 256
- 3) 64
- 4) 128
- 5) None of these

131. 5 10 40 ? 1920 19200

- 1) 240
- 2) 160
- 3) 200
- 4) 80
- 5) None of these

132. 1 4 ? 16 25 36

- 1) 10
- 2) 8
- 3) 7
- 4) 13
- 5) None of these

133. 15 32 67 138 ? 568

- 1) 276
- 2) 280
- 3) 281
- 4) 278
- 5) None of these

Qns. 134-140: Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and:

Give answer (1) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question

Give answer (2) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question

Give answer (3) if the data either in Statement I alone or in Statement II alone is sufficient to answer the question

Give answer (4) if the data even in both Statements I and II together are not sufficient to answer the question

Give answer (5) if the data in both Statements I and II together are necessary to answer the question

134. What is the speed of the train whose length is 210 metres?

- I. The train crosses another train of 300 metres length running in opposite direction in 10 seconds.
- II. The train crosses another train running in the same direction at the speed of km/hr in 30 seconds.

135. What is the simple rate of interest?

- I. The total interest earned was Rs. 4000
- II. The sum was invested for 4 years

136. What is the volume of a cube?

- I. The area of each face of the cube is 64 square metres.
- II. The length of one side of the cube is 8 metres

137. What is the number?

- I. 40% of the number is equal to its $\frac{2}{5}$
- II. 20% of the number is equal to 30% of 40

138. What is the two-digit number?

- I. The difference between the two digits is nine
- II. The sum between the two digits is nine

139. What is the per cent profit earned by selling the product?

- I. The profit earned was Rs. 50
- II. Had it been sold for Rs. 310, the profit would have been Rs. 70

140. What is the measure of three angles of a right angled triangle?

- I. Measure of one angle is 60°
- II. The sum of two angles of the triangle is 120°

Qns. 141-145. Study the following table to answer the given questions:

Notifications of transmissible infectious diseases over the years

(Rate per 1,00,000 inhabitants)

Year	Total (of about 12 diseases)	Typhoid	Hepatitis
1995	88	46	27
1996	126	60	44
1997	124	60	47
1998	211	109	86
1999	192	122	56
2000	165	99	57
2001	144	98	39
2002	191	96	86

141. Which year is the increase in rate from the previous year for Hepatitis is the maximum?

- 1) 1998
- 2) 1996
- 3) 1997
- 4) 2002
- 5) None of these

142. Which year is the percentage of Typhoid out of the total the highest?

- 1) 2001
- 2) 1998
- 3) 1999
- 4) 2002
- 5) None of these

143. If the population in 1998 was 2.75 crores, how many cases of Hepatitis were notified?

- 1) 2365
- 2) 236500
- 3) 23650
- 4) 312727
- 5) None of these

144. In 1999, what was the rate of other 11 diseases except for Typhoid?

- 1) 14
- 2) 66
- 3) 56
- 4) 136
- 5) None of these

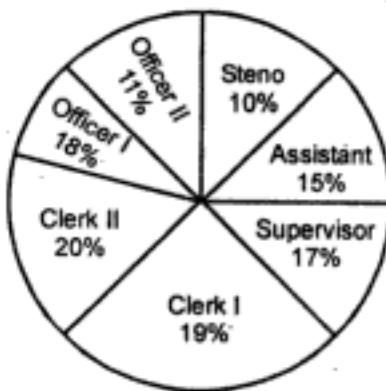
145. What is the difference in the average rate for the given years between Hepatitis and Typhoid?

- 1) 2525
- 2) 31
- 3) 55.25
- 4) 20
- 5) None of these

Qns. 146-150: Study the following information to answer the given questions:

Percentage of different types of employees in an organisation

Total employees 7000



	Out of these per cent of	
	Direct Recruits	Promotees
1. Steno	30	70
2. Assistant	40	60
3. Supervisor	50	50
4. Clerk I	90	10
5. Clerk II	30	70
6. Officer I	90	10
7. Officer II	70	30

146. What is the difference in Direct Recruits and Promotee Assistants?

- 1) 210
- 2) 280
- 3) 180
- 4) 110
- 5) None of these

147. The Promotee Clerk-I is approximately what per cent of that of Direct Recruit Clerk-I?

- 1) 10
- 2) 9
- 3) 11
- 4) 10.50
- 5) 9.75

148. How many employees are supervisors?

- 1) 1050
- 2) 1019
- 3) 1109
- 4) 1290
- 5) None of these

149. How many total Direct Recruits among all types of employees are there?

- 1) 4000
- 2) 3885
- 3) 3000
- 4) 3115
- 5) None of these

150. Which type of employees has maximum number of Direct Recruits?

- 1) Clerk I and Officer I
- 2) Officer I
- 3) Clerk I
- 4) Clerk II
- 5) None of these

REASONING

- 151.** Four of the following five are alike in a certain way and hence form a group. Which one does not belong to that group?
- 1) Litchi
 - 2) Papaya
 - 3) Jack fruit
 - 4) Guava
 - 5) Water melon
- 152.** Two is subtracted from the middle digit of each of the following numbers and the positions of the remaining two digits are interchanged. Then, which of the following would be the last but one number if the numbers are arranged in descending order ?
- 225, 136, 592, 367, 674
- 1) 592
 - 2) 225
 - 3) 367
 - 4) 136
 - 5) 674
- 153.** If the positions of the first and the sixth digits of the number 2796543018/are Interchanged, similarly the positions of the second and the seventh digits are interchanged and so on; which of the following will be the third to the left of seventh digit from the left end ?
- 1) 8
 - 2) 7
 - 3) 1
 - 4) 0
 - 5) None of these
- 154.** If '6' is coded as 'T', '8' as 'I', '3' as 'N', '9' as 'Q', '2' as 'Y', '5' as 'D' and '7' is coded as 'R', then how will DRINTQ is coded ?
- 1) 573869
 - 2) 578396
 - 3) 576839
 - 4) 578329
 - 5) None of these
- 155.** Four of the following five are alike in a certain way and hence form a group. Which one does NOT belong to that group?
- 1) Ginger
 - 2) Potato
 - 3) Carrot
 - 4) Mushroom
 - 5) Garlic
- 156.** In a certain code language STREAM is written as QSRNBF and SUPERB is written as OTRCSF. How will the word BORING be written in that code language?
- 1) QNAHOJ
 - 2) CPSJOH
 - 3) QNAOIJ
 - 4) ANQJOH
 - 5) None of these
- 157.** In a certain code language 'si po re' means 'book is thick', 'U na re' means 'bag is heavy', 'ka si' means 'interesting book' and 'de ti' means 'that bag'. What should stand for 'that is interesting' in that code language ?
- 1) ka re na
 - 2) de si re
 - 3) ti po ka
 - 4) ka de re
 - 5) None of these
- 158.** In a certain code language SPRING is written as UNUFRC. How will the word MOBILE be written in that code language?
- 1) OMDGNC
 - 2) OMEFPA
 - 3) OMDGPA
 - 4) KQEFP
 - 5) None of these

159. In a certain code language STRING is written as % = * - \$ + and PRAISE as ? * @ - % x'. How will the word GRAPES be written in that code language?

- 1) + * @ x ? %
- 2) + @ * ? x %
- 3) + * @ ? x %
- 4) + * - ? x %
- 5) None of these

160. How many such pairs of letters are there in the word CLUSTERED each of which has as many letters between them in the word as there are in English alphabets?

- 1) None
- 2) Two
- 3) Four
- 4) One
- 5) Three

161. How many such 5s are there in the following number sequence each of which is immediately preceded by 3 or 4 but not immediately followed by 8 nor 9?

3 5 9 5 4 5 5 3 5 8 4 5 6 7 3 5 7 5
5 4 5 2 3 5 1 0

- 1) Five
- 2) Four
- 3) Three
- 4) None
- 5) None of these

162. In a row of boys A is 13th from the left and D is 17th from the right. In this row if A is 11th from the right then what is the position of D from the left?

- 1) 12th
- 2) 7th
- 3) 10th
- 4) 6th
- 5) None of these

163. If it is possible to make a meaningful word with the second, the fourth, the sixth and the eighth letters of the word

ATMOSPHERE, what will be the third letter of that word? If more than one such words can be formed give X as the answer and if no such word can be formed, give Y as the answer.

- 1) O
- 2) T
- 3) E
- 4) X
- 5) Y

Directions (Qns. 164-165): Study the following information carefully and answer the questions given below:

- (i) L % M means M is brother of L.
- (ii) L x M means L is mother of M.
- (iii) L + M means L is sister of M.
- (iv) L = M means M is father of L.

164. Which of the following means 'I is nephew of Q'?

- A) Q % J = I
- B) Q + M x B% I
- C) C + I = B% Q
- 1) Only C
- 2) Only A
- 3) Only B
- 4) Both A and B
- 5) None of these

165. Which of the following statements can be dispensed with while answering the above question?

- 1) Only (i)
- 2) Only (ii)
- 3) Only (iii)
- 4) Only (iv)
- 5) All are necessary

Directions (Qns. 166-170): In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

- Give answer (1) if only assumption I is implicit.
Give answer (2) if only assumption II is implicit.

Give answer (3) if either I or II is implicit.

Give answer (4) if neither I nor II is implicit.

Give answer (5) if both I and II are implicit.

166. Statement: The Government has decided to reduce excise duty on several durable consumer goods and computer hardwares.

Assumptions

- I. The sale of these durable consumer goods and computer hardwares may increase considerably.
- II. The Government may be able to maintain its tax receipts even after the reduction in excise duty.

167. Statement : "If you want trouble free individual loan make a call to us, we would be at your doorstep"—An advertisement issued by the Finance Company 'X'.

Assumptions

- I. No other finance company makes available service at the doorstep of the customer.
- II. People may be attracted towards advertisement. Therefore, they may choose Finance Company 'X'.

168. Statement: The Government has withdrawn fifteen per cent tax on air ticket for domestic services with immediate effect.

Assumptions

- I. There is no possibility of increase in the number of air passengers in the domestic sector.
- II. The people will like to travel by train because it is more safe.

169. Statement: The Government has directed all the institutions running vocational courses to reduce the fee by fifty per cent and increase the number of students.

Assumptions

- I. These institutions will continue to provide quality education with lower fee and increased number of students.

II. These institutions may continue to charge additional fee for providing quality education.

170. Statement: Municipal Corporation has decided to ban the entry of vehicles from sub-urban areas to the main city through main routes during pick hours to avoid traffic congestion.

Assumptions

- I. The people of sub-urban areas should not bring their vehicles during pick hour.
- II. There is no traffic congestion by the vehicles of people residing in the main city.

Directions (Qns. 171-175): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

Give answer (1) if the data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

Give answer (2) if the data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

Give answer (3) if the data either in statement I alone or in statement II alone is sufficient to answer the question.

Give answer (4) if the data given in both the statements I and II are not sufficient to answer the question.

Give answer (5) if the data given in both the statements I and II together are necessary to answer the question.

171. Who is third from the top among P, Q, T, V and Z when they are arranged in descending order according to their heights?

- I. V is taller than P and Q but shorter than T and T is not the tallest.
- II. T is taller than Z only.

172. What is the meaning of 'pit' in a certain code language?

- I. In that code language 'na ja ho' means 'how and why'.
- II. In that code language 'ja pit ka' means 'how they went'.

173. On which day of week was birthday of Varun?

- I. Varun celebrated his birthday the very next day on which Ashish celebrated his birthday.
- II. The sister of Varun was born on the third day of week and two days after Varun was born.

174. How is M related to P?

- I. The mother of P and K are sisters.
- II. The only child of D and K is M.

175. What is the rank of K from bottom in a class of 30 students?

- I. M is third from the top and there are five students between M and K.
- II. The rank of P is fourth from the bottom and there are 17 students between P and K.

Directions (Qns. 176-180): Study the following digit-letter-symbol sequence carefully and answer the questions given below:

R * T J L 2 \$ D = M # 8 C % B < K I & A W
? P E + Q @ 7 F 6

176. Which of the following is sixth to the left of eighteenth element from the left?

- 1) C
- 2) %

3) 8

4) 1

5) None of these

177. What should come in the place of question-mark (?) in the following series on the basis of above sequence?

- * R J, F 6 @, L J \$, Q @ E, D \$ M ?
- 1) PEW
 - 2) #MC
 - 3) PE?
 - 4) P?+
 - 5) None of these

178. If the first fifteen elements in the above sequence is reversed then which of the following will be twenty-first from the right end?

- 1) =
- 2) 2
- 3) L
- 4) \$
- 5) None of these

179. If the above sequence is written in reverse order then which of the following will be sixth to right of sixteenth element from the right end?

- 1) A
- 2) ?
- 3) B
- 4) M
- 5) None of these

180. How many such numbers are there in the above sequence, each of which is immediately preceded by a consonant and immediately followed by a symbol?

- 1) None
- 2) One
- 3) Four
- 4) Three
- 5) None of these

Directions (Qns. 181-185) : In the following questions, the symbols @, %, *, \$ and # are used with the following meanings as illustrated below :

'P @ Q' means 'P is neither greater than nor equal to Q'.

'P % Q' means 'P is not smaller than Q'.

'P * Q' means 'P is neither smaller than nor equal to Q'.

'P \$ Q' means 'P is neither greater than nor smaller than Q'.

'P # Q' means 'P is not greater than Q'.

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true ?

Give answer (1) if only Conclusion I is true.

Give answer (2) if only Conclusion II is true.

Give answer (3) if either Conclusion I or II is true.

Give answer (4) if neither Conclusion I nor II is true.

Give answer (5) if both the Conclusions I and II are true.

181. Statements

K \$ M, B # M, F * B

Conclusions

I. K \$ B

II. K * B

182. Statements

H * R, R \$ Y, Y % M

Conclusions

I. M @ H

II. H \$ M

183. Statements

B # V, V \$ M, M * Z

Conclusions

I. B \$ M

II. Z @ V

184. Statements

W % V, V # D, M * D

Conclusions

I. M \$ W

II. M @ V

185. Statements

T \$ R, R # M, M @ N

Conclusions

I. N * T

II. R @ N

Directions (Qns. 186-190): Study the following information carefully and answer the questions given below :

- i) Eight persons A, B, C, D, E, F, G and H work in three different companies X, Y and Z.
- ii) There are two ladies who work in different companies and their specialisation is also different.
- iii) Two of them have specialisation in Finance, another two have specialisation in Human Resources, two have specialisation in Marketing, one is engineer and one of them is specialist in Computer.
- iv) D is a specialist in Human Resource working in Company X while her friend G is a Finance specialist and works in Company Z.
- v) H is a Human Resource specialist who works with Marketing specialist B but does not work in Company Y.
- vi) The two persons with same specialisation do not work together.
- vii) Marketing specialist F works in Company Y and his friend A who is Finance specialist works in Company X with only one other specialist.
- viii) In no company more than three persons work.
- ix) C is an engineer and his sister works in Company Z.
- x) No lady is an engineer nor Computer specialist.

186. In which two Companies Human Resource specialists do work?

- 1) X and Y
- 2) Y and Z
- 3) X and Z
- 4) Data inadequate
- 5) None of these

187. Who is Computer specialist ?

- 1) C
- 2) E
- 3) H
- 4) Data inadequate
- 5) None of these

188. The two ladies are

- 1) B and D
- 2) D and H
- 3) D and G
- 4) Either (1) or (3)
- 5) Data inadequate

189. What is the specialisation of H?

- 1) Marketing
- 2) Finance
- 3) Computer
- 4) Engineer
- 5) None of these

190. In which Company does C work ?

- 1) Y
- 2) Z
- 3) X
- 4) Either Y or Z
- 5) None of these

Directions (Qns. 191-195): In each of the questions below are given three Statements followed by four Conclusions numbered I, II, III and IV. You have to take the given Statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given Conclusions logically follows from the given Statements disregarding commonly known facts.

191. Statements

All branches are roads.

Some roads are dogs.

All dogs are rains.

Conclusions

- I. Some rains are dogs.
 - II. Some rains are branches.
 - III. Some rains are roads.
 - IV. All roads are branches.
- 1) Only I, II and III follow
 - 2) None follows
 - 3) Only II, III and IV follow
 - 4) Only I and III follow
 - 5) All follow

192. Statements

Some houses are trains.

All trains are fruits.

Some fruits are skies.

Conclusions

- I. Some skies are houses.
 - II. Some fruits are houses.
 - III. Some trains are skies.
 - IV. All fruits are trains.
- 1) Only II follows
 - 2) Only I follows
 - 3) Only II and IV follow
 - 4) Only II and III follow
 - 5) None of these

193. Statements

All doors are buses.

All buses are leaves.

No leaf is a flower.

Conclusions

- I. No flower is a door.
 - II. No flower is a bus.
 - III. Some leaves are doors.
 - IV. Some leaves are buses.
- 1) None follows
 - 2) Only I and II follow
 - 3) Only II and III follow
 - 4) Only II, III and IV follow
 - 5) All follow

194. Statements

- All tigers are rivers.
No river is a forest.
Some forests are goats.
- Conclusions**
- I. Some tigers are goats.
 - II. Some rivers are goats.
 - III. Some goats are tigers.
 - IV. Some forests are tigers.

- 1) Only II and III follow
- 2) None follows
- 3) Only III and IV follow
- 4) Only II and IV follow
- 5) Only I and IV follow

195. Statements

- Some cars are windows.
Some windows are trees.
Some trees are peaks.

- Conclusions**
- I. Some peaks are cars.
 - II. Some trees are cars.
 - III. Some peaks are windows.
 - IV. No car is a peak.

- 1) Either I or II follows
- 2) Either I or III follows
- 3) Either I or IV follows
- 4) Either II or IV follows
- 5) Either III or IV follows

Directions (Qns. 196-200) : Study the following information carefully and answer the questions given below it:

- i) Seven students P, Q, R, S, T, W and Z study in three different institutes - A, B and C respectively.
- ii) There are three girls and there is one girl in each institute.
- iii) Two of them study Mechanical Engineering, two study Medical and one each studies Biotechnology, Pharmacy and Electrical Engineering.
- iv) R studies with her best friend P who studies Pharmacy in Institute B. No girl

studies Biotechnology or Electrical Engineering.

- v) T studies Mechanical Engineering in Institute A and his brother W studies Electrical Engineering in Institute C.
- vi) No Medical student studies in Institute B.
- vii) S studies Biotechnology with T and Z.

196. Which of the following pairs of students do study Medical Science ?

- 1) S and Z
- 2) W and Z
- 3) Q and Z
- 4) Q and T
- 5) None of these

197. Which of the following groups is of girls only ?

- 1) QSZ
- 2) QRZ
- 3) QRS
- 4) Data inadequate
- 5) None of these

198. In which Institute does Q study ?

- 1) C
- 2) B
- 3) Either A or B
- 4) Data inadequate
- 5) None of these

199. In which Institute three students study ?

- 1) A
- 2) B
- 3) Either A or B
- 4) C
- 5) Data inadequate

200. Which of the following is the discipline of Z ?

- 1) Medical Science
- 2) Mechanical Engineering
- 3) Electrical Engineering
- 4) Data inadequate
- 5) None of these

ANSWERS**GENERAL AWARENESS**

- | | | | | | | | | | |
|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|
| 1. (1) | 2. (1) | 3. (2) | 4. (2) | 5. (3) | 101. (4) | 102. (2) | 103. (3) | 104. (1) | 105. (4) |
| 6. (3) | 7. (4) | 8. (1) | 9. (2) | 10. (4) | 106. (5) | 107. (2) | 108. (2) | 109. (1) | 110. (5) |
| 11. (3) | 12. (5) | 13. (2) | 14. (4) | 15. (3) | 111. (5) | 112. (2) | 113. (5) | 114. (1) | 115. (5) |
| 16. (2) | 17. (1) | 18. (3) | 19. (1) | 20. (1) | 116. (1) | 117. (3) | 118. (2) | 119. (2) | 120. (5) |
| 21. (4) | 22. (5) | 23. (4) | 24. (1) | 25. (3) | 121. (4) | 122. (4) | 123. (4) | 124. (1) | 125. (3) |
| 26. (3) | 27. (3) | 28. (2) | 29. (1) | 30. (1) | 126. (3) | 127. (1) | 128. (2) | 129. (5) | 130. (2) |
| 31. (1) | 32. (3) | 33. (1) | 34. (1) | 35. (1) | 131. (1) | 132. (5) | 133. (3) | 134. (4) | 135. (4) |
| 36. (5) | 37. (3) | 38. (1) | 39. (2) | 40. (1) | 136. (3) | 137. (2) | 138. (5) | 139. (2) | 140. (1) |
| 41. (2) | 42. (2) | 43. (1) | 44. (3) | 45. (1) | 141. (4) | 142. (3) | 143. (3) | 144. (5) | 145. (2) |
| 46. (1) | 47. (5) | 48. (2) | 49. (4) | 50. (3) | 146. (1) | 147. (3) | 148. (5) | 149. (5) | 150. (3) |

QUANTITATIVE APTITUDE

- | | | | | | | | | | |
|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|
| 51. (5) | 52. (4) | 53. (4) | 54. (3) | 55. (2) | 151. (5) | 152. (5) | 153. (3) | 154. (5) | 155. (4) |
| 56. (5) | 57. (2) | 58. (1) | 59. (1) | 60. (2) | 156. (1) | 157. (4) | 158. (2) | 159. (3) | 160. (5) |
| 61. (4) | 62. (5) | 63. (2) | 64. (5) | 65. (1) | 161. (1) | 162. (2) | 163. (4) | 164. (3) | 165. (4) |
| 66. (3) | 67. (5) | 68. (1) | 69. (1) | 70. (4) | 166. (2) | 167. (5) | 168. (1) | 169. (3) | 170. (4) |
| 71. (3) | 72. (4) | 73. (5) | 74. (3) | 75. (2) | 171. (1) | 172. (4) | 173. (2) | 174. (5) | 175. (3) |
| 76. (5) | 77. (4) | 78. (3) | 79. (1) | 80. (2) | 176. (3) | 177. (1) | 178. (2) | 179. (4) | 180. (5) |
| 81. (1) | 82. (1) | 83. (3) | 84. (4) | 85. (2) | 181. (3) | 182. (1) | 183. (2) | 184. (4) | 185. (5) |
| 86. (3) | 87. (1) | 88. (4) | 89. (5) | 90. (2) | 186. (3) | 187. (2) | 188. (5) | 189. (5) | 190. (1) |
| 91. (5) | 92. (2) | 93. (2) | 94. (1) | 95. (4) | 191. (4) | 192. (1) | 193. (5) | 194. (2) | 195. (3) |
| 96. (4) | 97. (1) | 98. (2) | 99. (5) | 100. (3) | 196. (3) | 197. (4) | 198. (4) | 199. (5) | 200. (1) |

ENGLISH LANGUAGE**REASONING**

EXPLANATORY ANSWERS**ENGLISH LANGUAGE**

56. Let's see the following sentence of the second paragraph:
 "Hitherto, texts considered to be the most important in Hinduism had been zealously guarded by a class of Brahmins which prevented their wider circulation".
 Clearly, Brahmins were against wider circulation of texts of Hinduism.
58. Let's see the following sentence of the passage :
 But, perhaps equally importantly, it also **fostered** a sense of shared culture. Here, the word 'foster' has been used in the sense of helping the development of something, encouraging or promoting something.
 Hence, the synonym of 'fostered' is 'promoted.'
59. The word **moved** has been used in the sense of causing or influencing somebody to do something.
 Out of the given answer choices, the word **deter** means to make somebody not to do something.
 For example,
Stiffer penalties are needed to deter crime.
 Hence, **deterring** and **moved** are antonymous.
71. The word **Pensive** (Adj.) means thinking deeply about something, especially in a sad or serious way.
 For example,
Sita looked pensive when she heard the news of her failure in the examination.
 Out of the given answer choices, the word **contemplative** bears the meaning 'showing careful thought'.
 For example,
Ram is a contemplative person.
 Hence, **pensive** and **contemplative** are synonymous.
72. The word **servitude** (Noun) means the state of being forced to work for others and having no freedom.
 Out of the given answer choices the word **bondage** (Noun) means the state of being a slave or prisoner.
 Hence, **servitude** and **bondage** are synonymous.
73. The word **yearn** (verb) means to desire something strongly and with great emotion.
 For example,
Having lived for several years in England she yearned to return to her native country, India.
 Out of the given answer choices, the word **craving** (Noun) means strong desire.
 For example,
She has developed a craving for oranges.
 Hence, **craving** and **yearn** are synonymous.
74. The word **candour** (Noun) means the quality of being frank and honest in one's speech or behaviour.
 For example,
With refreshing candour, he admitted that he had lied repeatedly.
 Out of the given answer choices, the word **frankness** bears the same meaning.
 Hence, **candour** and **frankness** are synonymous.
75. The word **babble** (Noun) means the sound of people talking quickly and in a way that is difficult or impossible to understand.
 For example,
His constant babble irritates the listener.
 Clearly, **gossip** and **babble** are synonymous.
76. The word **ennoble** (verb) means to make somebody a member of nobility, to give somebody greater dignity.

- For example,
In a strange way she seemed ennobled by the grief she had experienced.
 Out of the given answer choices, the word **degrade** (verb) means to cause somebody/oneself to be less respected or have a lower status.
- For example,
Pornography degrades human dignity.
 Hence, **ennoble** and **degrade** are antonymous.
77. The word **luminous** (Adj.) means giving out light, bright.
 Out of the given answer choices, the word **gloomy** (Adj.) means nearly dark, not well lit.
 Hence, **luminous** and **gloomy** are antonymous.
78. The word **reverence** (Noun) means a feeling of deep respect or admiration for somebody / something.
 For example,
The crowd knelt in reverence and worship.
 Out of the given answer choices, the word **contempt** (Noun) means the feeling that somebody / something is completely worthless and cannot be respected.
 For example,
Ram feels nothing but contempt for people who treat children so cruelly.
 Hence, **reverence** and **contempt** are antonymous.
79. The word **weary** (Adj.) means very tired especially as a result of effort or stress.
 For example,
They felt weary after all their hard work.
 Out of the given answer choices, the word **invigorated** (Adj.) means feeling more lively and healthy.
 For example,
Men feel invigorated by all this fresh air.
 Hence, **weary** and **invigorated** are antonymous.
80. The word **frugal** (Adj.) means using as little as possible of something, especially money or food.
 Out of the given answer choices, the word **extravagant** (Adj.) means willing to use more of something especially money, than is necessary or appropriate.
 Hence, **frugal** and **extravagant** are antonymous.
81. The error lies in the part (1) of the sentence. The word **knock** has been used in a wrong way. The word knock is used as a Noun in the sense of a firm sharp sound made with the hand on the door etc. in order to attract attentions, an injury caused by one's body hitting something hard.
 Clearly, the correct usage will be: When I heard him knock.
82. The error lies in the part (1) of the sentence. 'We had heard the engine roar' should be replaced with 'We heard the engine roar'. As the Simple Past is used to indicate an action completed in the past. It often occurs with adverbs or adverb phrases of past time. Sometimes this tense is used without an adverb of time. In such cases the time may be either implied or indicated by the context. For example, I did not sleep well (i.e. last night).
83. The error lies in the part (3) of the sentence. The correct usage will be : "but there had been" because the Past Perfect Continuous is used for an action that began before a certain point in the past and continued upto that time. Also, the sentence supplies the past sense.
84. The error lies in the part (4) of the sentence. As the Past Perfect describes an action completed before a certain moment in the past, the correct usage will be : 'my father had just left'.
85. The error lies in the part (2) of the sentence. The correct usage will be : 'the debate on education has been ...', because to describe past events when we think more of their effect in the present than of the action itself.
 For example,
I have cut my finger (and it is bleeding now)

QUANTITATIVE APTITUDE

103. $? = 422,50 \times \frac{20}{100} \times \frac{100}{65} = 130$

106. $\frac{3}{5}$ of $\frac{4}{7}$ of $\frac{5}{9}$ of $\frac{21}{24}$ of 504 = 84

109. $1000^7 \div 10^{18} = (10^3)^7 \div 10^{18} = 10^{21} \div 10^{18} = 10^{21-18} = 10^3 = 1000$

111. There are 7 letters in which 2 are N's, 2 vowels (A and I); consider A and I as one letter.

∴ No. of letters = 6 which can be arranged in $\frac{6!}{2!}$ ways.

2 vowels can be arranged in $2!$ ways

$$\therefore \text{Reqd. no. of ways} = \frac{6!}{2!} \times 2! = 6! = 720$$

112. Reqd. no. of ways ${}^8C_5 = 56$

113. Let their ages be $7x$ and $9x$

$$\therefore 7x = 9x - 4 \Rightarrow x = 2$$

Srikanth's age = $7x = 14$ years

114. $S = x \therefore A = 2x, I = 2x - x = \text{Rs. } x$

$$I = \frac{PRT}{100}$$

$$x = \frac{x \times R \times 5}{100} \Rightarrow R = 20 \text{ years}$$

115. Distance covered in first half an hour =

$$\frac{50}{2} = 25 \text{ km}$$

Distance covered in second half hour =

$$\frac{60}{2} = 30 \text{ km}$$

∴ Total distance covered in 3 hours i.e. in 6 half hours

$$= 25 + 30 + 35 + 40 + 45 + 50 = 225 \text{ km}$$

116. $\frac{5}{8} = 0.625, \frac{5}{7} = .7142\ldots, \frac{3}{4} = 0.75,$

$$\frac{6}{7} = .855\ldots, \frac{7}{8} = 0.875$$

117. $x - \frac{2x}{5} = 510 \Rightarrow x = 850$

$$10\% \text{ of } 850 = 85$$

118. $CI = P[(1 + \frac{R}{100})^n - 1]$

$$\text{A.T.S. } 1000 [(1 + \frac{10}{100})^4 - 1]$$

$$- \frac{1000 \times 10 \times 4}{100} = \text{Rs. } 64.10$$

119. Work down by 10 women in 7 days = work done by 10 children in 14 days

∴ Work done by 10×7 women in 1 day = work done by 10×14 children in 1 day

$$\therefore 70 w = 140 c \text{ or } 1w = 2c$$

$$5w + 10c = 5 \times 2 + 10 = 20c$$

10 children take 14 days to do the work

$$\therefore 20 \text{ children will take } \frac{14 \times 10}{20} = 7 \text{ days}$$

120. $D = S \times t$

$$\therefore \text{Length of a train} = (60 \times \frac{5}{18}) \text{ m/sec} \\ \times 9 = 150 \text{ m}$$

123. 1997, 2000, 2002, 1996

124. Average rate of interest of floating

$$= \frac{1}{8} (15 + 15 + 15 + 14.5 + 12.5 + 12 + 10 \\ + 10) = 13$$

Average rate of interest of fixed = 13.8125

∴ Difference = 0.8125

128. 140, 147, 138, x, 136, 151, 134

Each succeeding term is obtained by adding 7, -9, 11, -13, 15, -17 ∴ x = 149

129. $18 + 19 = 37, 19 + 37 = 56, 37 + 56 = 93, 56 + 93 = 149$

$$130. 2 \times 4 = 8, 4 \times 8 = 32, 8 \times 32 = 256, 32 \times 256 = 8192 \therefore \text{Reqd. term} = 256$$

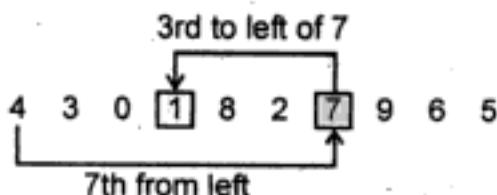
131. $5 \times 2 = 10, 10 \times 4 = 40, 40 \times 6 = 240, 240 \times 8 = 1920, 1920 \times 10 = 19200$

Reqd. term = 240

132. $1, 4, x, 16, 25, 36$ i.e. $1^2, 2^2, x, 4^2, 5^2, 6^2$
 $\therefore x = 3^2 = 9$
133. $15, 32, 67, 138, x, 568$
 $32 = 15 \times 2 + 2, 32 \times 2 + 3 = 67,$
 $67 \times 2 + 4 = 138, x = 138 \times 2 + 5 = 281$
 $281 \times 2 + 6 = 568 \quad \therefore \text{Reqd. No.} = 281$
135. $R = \frac{I \times 100}{P \times t}$ P is not given
137. $40\% \text{ of } x = \frac{2x}{5}$, we can't find x
 $20\% \text{ of } x = 30\% \text{ of } 40$
 $\Rightarrow x = \frac{30}{100} \times 40 \times \frac{100}{20} = 60$
139. $CP = SP - P = 310 - 70 = \text{Rs. } 240$
 $P\% = \frac{70}{240} \times 100$
140. $90^\circ, 60^\circ, 30^\circ$
146. Total assistants = $7000 \times \frac{15}{100} = 1050$
 Reqd. difference = $1050 \times (60 - 40)\% = 210$
147. $\frac{10}{90} \times 100 = 11$ approximately
148. $\frac{17}{100} \times 7000 = 1190$
149. $\text{Reqd. No.} = \frac{7000}{100}$
- $\left[\frac{10 \times 30}{100} + \frac{15 \times 40}{100} + \frac{17 \times 50}{100} + \frac{19 \times 90}{100} + \frac{20 \times 30}{100} + \frac{18 \times 90}{100} + \frac{11 \times 70}{100} \right] = 4515$

REASONING

151. Except water melon, all others grow on trees. Water melon is a creeper.
152. The numbers after subtracting 2 from the middle digit and interchanging the positions of remaining two digits:
 $225 \Rightarrow 502 : 136 \Rightarrow 611;$
 $592 \Rightarrow 275 : 367 \Rightarrow 743;$
 $674 \Rightarrow 456$
 Descending order of the numbers so obtained:
 $743 > 611 > 502 > 456 > 275$
 Last but one number
 $\Rightarrow 456, \text{i.e., } 674$
153. The number after rearrangement



$$\begin{aligned} R &\xrightarrow{-1} Q \\ T &\xrightarrow{-1} S \\ S &\xrightarrow{-1} R \\ M &\xrightarrow{+1} N \\ A &\xrightarrow{+1} B \\ E &\xrightarrow{+1} F \end{aligned}$$

And,



$$\begin{array}{l} P \xrightarrow{-1} O \\ U \xrightarrow{-1} T \\ S \xrightarrow{-1} R \\ B \xrightarrow{+1} C \\ R \xrightarrow{+1} S \\ E \xrightarrow{+1} F \end{array}$$

Similarly,



$$\begin{array}{l} R \xrightarrow{-1} Q \\ O \xrightarrow{-1} N \\ B \xrightarrow{-1} A \\ G \xrightarrow{+1} H \\ N \xrightarrow{+1} O \\ I \xrightarrow{+1} J \end{array}$$

157. si po re → books is thick
 ti na re → bag is heavy
 ka si → interesting book
 de ti → that bag

Therefore, that is interesting \Rightarrow de re ka

158. S $\xrightarrow{+2}$ U
 P $\xrightarrow{-2}$ N
 R $\xrightarrow{+3}$ U
 I $\xrightarrow{-3}$ F
 N $\xrightarrow{+4}$ R
 G $\xrightarrow{-4}$ C

Similarly,

- M $\xrightarrow{+2}$ O
 O $\xrightarrow{-2}$ M
 B $\xrightarrow{+3}$ E
 I $\xrightarrow{-3}$ F
 L $\xrightarrow{+4}$ P
 E $\xrightarrow{-4}$ A

159.

$$\begin{array}{ccccccc} S & T & R & I & N & G \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \% = & * - & \$ + \end{array}$$

And,

$$\begin{array}{ccccccc} P & R & A & I & S & E \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ ? * @ - \% \times \end{array}$$

Therefore,

$$\begin{array}{ccccccc} G & R & A & P & E & S \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ + * @ ? \times \% \end{array}$$

160.

$$\begin{array}{ccccccccc} 3 & 12 & 21 & 19 & 20 & 5 & 18 & 5 & 4 \\ C & L & U & S & T & E & R & E & D \end{array}$$

161.

$$3 \text{ or } 4 \quad 5 \quad \boxed{B \times E \times G}$$

$$359 \ 5 \ \boxed{455} \ 358 \ \boxed{456} \ 7 \ \boxed{357} \ 55 \ \boxed{452} \ \boxed{351} \ 0$$

162.

Total number of boys in the row

$$= 13 + 11 - 1 = 23$$

Position of D from the left

$$= 23 - 17 + 1 = 7\text{th}$$

163.

$$\begin{array}{cccccccccc} 1 & \boxed{2} & 3 & \boxed{4} & 5 & \boxed{6} & 7 & \boxed{8} & 9 & 10 \\ A & \boxed{T} & M & \boxed{O} & S & P & \boxed{H} & \boxed{E} & R & E \end{array}$$

Specified letters \Rightarrow T, O, P, E

Meaningful words \Rightarrow TOPE, POET

164.

(A) Q % J = I

Q % J \Rightarrow J is brother of Q

J = I \Rightarrow I is father of J

Therefore, I is father of Q.

(B) Q + M \times B % I

Q + M \Rightarrow Q is sister of M.

M \times B \Rightarrow M is mother of B.

B % I \Rightarrow I is brother of B.

M is mother of I and B.

Q is sister of M. Therefore, I is the nephew of Q.

(C) C + I = B % Q.

C + I \Rightarrow C is sister of I.

I = B \Rightarrow B is father of I.

B % Q \Rightarrow Q is brother of B.

The sex of I is not known. Therefore, I may be nephew or niece of Q.

165. The statement (iv) is not necessary.

171. **From statement I**

Z > T > V > P, Q

No answer can be derived from the statement II.

172. **From both the statements**

na [ja] ho \rightarrow [how] and why

[ja] pit ka \rightarrow [how] they went

The meaning of 'pit' may be 'they' or 'went'

173. **From statement II**

Birthday of Varun

= Third day of week + 2 days.

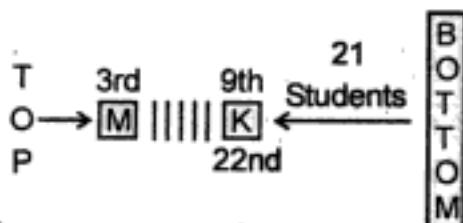
= Wednesday + 2 days = Friday.

174. **From both the statements**

K is mother of M.

Therefore, P is cousin of M.

175. **From statement I**



The rank of K from the bottom

$$= 30 - 9 + 1 = 22\text{th}$$

From statement II

The rank of K from the bottom

$$= 4 + 17 + 1 = 22\text{th}$$

(176-180):

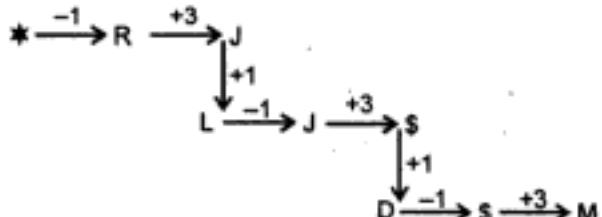
- (i) There are altogether 30 elements in the sequence.
- (ii) There are 15 letters.
- (iii) There are 5 digits.
- (iv) There are 10 symbols

176. Sixth to the left of 18th element from the left means 12th from the left.

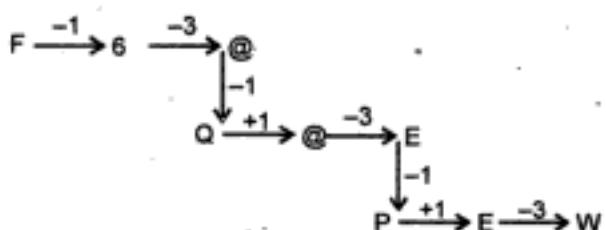
R * T J L 2 \$ D = M # [8] C % B

12th from the left

177.



And,



178. 21st element from the right means 15 + 6

The first fifteen elements have been written in the reverse order. It implies that first element from the left becomes fifteenth from the left (16th from right) and vice-versa, second element from the left becomes 14th from the left and vice-versa and so on.

3rd element from the left

\rightarrow 13th element from the left

4th element from the left

\rightarrow 12th element from the left

5th element from the left

\rightarrow 11th element from the left

6th element from the left

\rightarrow 10th element from the left

Required answer is sixth element from the left in the original sequence, i.e. 2.

179. Sixth to the right of 16th element from the right means 10th element from the right but the sequence has been reversed. Therefore, required answer would be 10th element from the left in the original sequence.

R * T J L 2 \$ D = [M] # 8 C ...

10th from left

180.	Consonant	Digit	Symbol
------	-----------	-------	--------

Such combinations are :

L 2 \$: K 1 &

(181-185):

i) $P @ Q \Rightarrow P \neq Q$ and $P \neq Q$

Therefore, $P < Q$

ii) $P \% Q \Rightarrow P < Q$

Therefore, $P \geq Q$

iii) $P * Q \Rightarrow P < Q$ and $P \neq Q$

Therefore, $P > Q$

iv) $P \$ Q \Rightarrow P \neq Q$ and $P \neq Q$

Therefore, $P = Q$

v) $P \# Q \Rightarrow P \neq Q$

Therefore, $P \leq Q$

$@ \Rightarrow <$	$\% \Rightarrow \geq$	$* \Rightarrow >$
$\$ \Rightarrow =$	$\# \Rightarrow \leq$	

181. Statements

$K \$ M \Rightarrow K = M$

$B \# M \Rightarrow B \leq M$

$F * B \Rightarrow F > B$

Therefore, $K = M \geq B < F$

Conclusions

I. $K \$ B \Rightarrow K = B$: May be true

II. $K * B \Rightarrow K > B$: May be true

K is either greater than or equal to B.

Therefore, either Conclusion I or II is definitely true.

182. Statements

$H * R \Rightarrow H > R$

$R \$ Y \Rightarrow R = Y$

$Y \% M \Rightarrow Y \geq M$

Therefore, $H > R = Y \geq M$

Conclusions

I. $M @ H \Rightarrow M < H$: Definitely true.

II. $H \$ M \Rightarrow H = M$: Not true

183. Statements

$B \# V \Rightarrow B \leq V$

$V \$ M \Rightarrow V = M$

$M * Z \Rightarrow M > Z$

Therefore, $B \leq V = M > Z$

Conclusions

I. $B \$ M \Rightarrow B = M$: Not definitely true.

II. $Z @ V \Rightarrow Z < V$: True.

184. Statements

$W \% V \Rightarrow W \geq V$

$V \# D \Rightarrow V \leq D$

$M * D \Rightarrow M > D$

Therefore

$W \geq V \leq D < M$

Conclusions

I. $M \$ W \Rightarrow M = W$: Not true.

II. $M @ V \Rightarrow M < V$: Not true.

185. Statements

$T \$ R \Rightarrow T = R$

$R \# M \Rightarrow R \leq M$

$M @ N \Rightarrow M < N$

Therefore, $T = R \leq M < N$

Conclusions

I. $N * T \Rightarrow N > T$: True

II. $R @ N \Rightarrow R < N$: True

(186-190): On the basis of given information we can construct the following table:

Specialist	Company		
	X	Y	Z
Finance	A		G
Human Resource	D (Female)		H
Marketing		F	B
Engineer		C	
Computer		E	

186. Human Resource specialists D and H work in Company X and Company Z respectively.

187. E is a Computer Specialist.

188. One lady is D. The other lady may be B, G or H.

189. The specialisation of H is Human Resource.

190. C, an engineer, works in Company Y.

191. First and third Premises are Universal Affirmative (A-type).
 Second Premise is Particular Affirmative (I - type)
 Some roads are dogs.

All dogs are rains.

We know that,

$I + A \Rightarrow I$ - type Conclusion.

Thus, our derived Conclusion would be:
 "Some roads are rains."

Conclusion III is Converse of this Conclusion.

Conclusion I is Converse of the third Premise.

192. First and third Premises are Particular Affirmative (I - type). Second Premise is Universal Affirmative (A-type).

Some houses are trains.

All trains are fruits.

We know that,

$I + A \Rightarrow I$ -type Conclusion.

Thus, our derived Conclusion would be:
 "Some houses are fruits"

Conclusion II is Converse of this Conclusion.

193. First and Second Premises are Universal Affirmative (A-type).

Third Premise is Universal Negative (E-type).

(A) All doors are buses.

All buses are leaves.

We know that,

$A + A \Rightarrow A$ - type Conclusion,

Thus, our derived Conclusion would be:
 "All doors are leaves".

Conclusion III is Converse of this Conclusion.

(B) All buses are leaves

No leaf is a flower.

We know that,

$A + E \Rightarrow E$ - type Conclusion.

Thus, our derived Conclusion would be:
 "No bus is a flower".

Conclusion II is Converse of this Conclusion.

(C) All doors are leaves.

No leaf is a flower.

Thus, our derived Conclusion would be:
 "No doors is a flower".

Conclusion I is Converse of this Conclusion.

Conclusion IV is Converse of second Premise.

194. First Premise is Universal Affirmative (A - type).

Second Premise is Universal Negative (E-type).

Third Premise is Particular Affirmative (I-type).

(A) All tigers are rivers.

No river is a forest.

We know that,

$A + E \Rightarrow E$ - type Conclusion.

Thus, our derived Conclusion would be:
 "No tiger is a forest".

(B) No river is a forest.

Some forests are goats.

We know that,

$E + I \Rightarrow O_1$ - type Conclusion.

Thus, our derived Conclusion would be:

"Some goats are not rivers".

(C) No tiger is a forest.



Some forests are goats.

We know that

$E + I \Rightarrow O_1$ - type Conclusion.

Thus, our derived Conclusion would be:

"Some goats are not tigers".

195. All the three Premises are Particular Affirmative (I-type). No Conclusion follows from the Particular Premises.

Now look for any Conversation and/or Implication. Conclusions I and IV form Complementary Pair. Therefore, either Conclusion I or IV follows.

(196-200):

The given information can be analysed in the following manner:

Discipline	Institute		
	A	B	C
Mechanical Engineering	T	R (Girl)	
Medical Science	Z		Q (Girl)
Biotechnology	S		
Pharmacy		P	
Electrical Engineering			W

The third girl is either T or Z.

196. Q and Z study Medical Science

197. The girls are: Q, R and either T or Z.

198. Q studies in Institute C.

199. Three students S, T and Z study in Institute A.

200. Z studies Medical Science.



PROBATIONARY OFFICERS' EXAM.

(Indian Overseas Bank)

Original Question Paper – Held in January 2004

TEST OF REASONING

1. Arzan started walking towards East. He walked a distance of 5 km and then turned to his right and walked 10 km. He again turned to his right and walked another 15 km. Then he turned to his left and walked 5 km. In which direction is he in relation to his starting point?
 - a) South
 - b) South-east
 - c) North-west
 - d) South-west
 - e) None of these.
2. Ahmed is standing to the West of Amit and North of Rachna and Satish is to the West of Rachna and South of Samir. Satish is in which direction from Amit?
 - a) West
 - b) South-west
 - c) South
 - d) South-east
 - e) None of these.
3. If it is possible to make a meaningful word with the first, the second, the third and the fourth letters of the word PEACEFUL, what will be the first letter of that word? If no such word can be formed, give 'N' as your answer and if more than one such words can be formed, give 'M' as the answer.
 - a) P
 - b) N
 - c) C
 - d) M
 - e) None of these.
4. If the letters in the word RUTHENIUM are rearranged in the alphabetical order, which letter will be second to the right of middle letter?
 - a) I
 - b) N
 - c) T
 - d) R
 - e) None of these.
5. In a certain code language QUESTION is written as SOIQNEUT. How is MOTHER written in that code language?
6. Asha is taller than Babu but shorter than Chetan, Dimple is taller than Esha who is taller than Chetan. Who is the tallest person in the group?
 - a) Chetan
 - b) Dimple
 - c) Esha
 - d) Asha
 - e) None of these.
7. In a certain code 'Hit Bit Mit' means 'Git Rit Nit'; 'Sit Pit Mit' means 'Lit Git Tit' and 'Fit Zit Pit' means 'Dit Vit Tit'. What does 'Sit' stand for in that code language?
 - a) Vit
 - b) Dit
 - c) Rit
 - d) Lit
 - e) None of these.
8. In a certain code MEANING is written as NFHALDN, WRITTEN is written as TMDIQVT. How is RELATED written in that code?
 - a) EESAKSE
 - b) EQKASCE
 - c) QDKASDC
 - d) ECSAKQE
 - e) None of these.
9. In a row of students, Rakesh is 12th from the left and Kashi is 17th from the right. When Rakesh and Kashi interchange their positions, Kashi becomes 27th from the right. How many students are there between Kashi and Rakesh?
 - a) 9
 - b) 12
 - c) 7
 - d) 10
 - e) None of these.

Directions (Qns. 10-13): Study the following information and answer the questions below it.

- I. An examination was held during the two weeks of January—Sunday the 3rd to Saturday the 16th.

- II. There was one paper each for the six subjects, viz., Physics, Chemistry, Biology, Maths, English and Hindi. There was not more than one paper on any day.
- III. No paper was held on Saturdays and Sundays and the National Holiday on 5th. Only three papers were there in a week.
- IV. Chemistry was before Biology and Maths was on the next day of Hindi.
- V. The day on which the papers of Biology and Maths were held was the same; while that for Physics and Chemistry was also the same.
- VI. There was no paper for three days between Physics and the paper prior to it.
- VII. Papers in Hindi and English were on Tuesday and Thursday respectively.
- VIII. There was at least a gap of one day between any two Science papers.

10. Which of the following group of papers was held in the first week?

- a) Biology, Chemistry and English
- b) Biology and Chemistry only
- c) Hindi, Maths and Physics
- d) Chemistry, Biology and Hindi
- e) None of these.

11. Which of the following papers was held on the 4th?

- a) Chemistry
- b) English
- c) Physics
- d) Mathematics
- e) No paper.

12. If by rearrangement Mathematics was held on 15th, how many days' gap would have been there between Physics and Mathematics?

- a) 1
- b) 2
- c) 3
- d) 4
- e) None of these.

13. How many days' gap was there between Chemistry and English?

- a) 1
- b) 2
- c) 3
- d) 4
- e) None of these.

Directions (Qns. 14-18): Study the following information carefully and answer the questions below.

Symbols are to be coded as follows:

Symbol : @ \$ # ★ % £ + X = ?

Code : F R H S E A D N O K

Following conditions are to be observed :

- I. If the middle symbol is £ then it is to be coded as L.
- II. If the first symbol is + and the last symbol is # both are to be coded as 6.
- III. If the first symbol is % and the last symbol is \$ then both are to be coded as 4.
- IV. If the first and last symbol are @ then both are to be coded as 2.

Applying these conditions, you have to find out the correct code for the symbols in each question given below. If none of the code is correct, (E), i.e., 'None of these' is your answer.

14. % @ = £ + ★ \$

- a) 4F0LDS4
- b) EFOLDSR
- c) 4F0ADS4
- d) EFOLDS6
- e) None of these.

15. + % X £ X \$ #

- a) 6ENANR6
- b) 64NAN46
- c) DENLNRH
- d) 6ENLNR6
- e) None of these.

16. # ★ =? @ X £

- a) HSOKFNA
- b) HSOFKNA
- c) HSDKFNA
- d) RSOFKNA
- e) None of these.

17. @ @ % = ★ + \$

- a) 22EOSDR
- b) 2 F E 0 S D 2
- c) FFEOSDR
- d) FEFOSDR
- e) None of these.

18. If it is possible to make a meaningful word from the codes of the symbols, = \$ @ ?, then the last letter of that word is your answer. If no such word can be formed W is your answer?

- a) F
- b) R
- c) L
- d) W
- e) None of these.

Directions (Qns. 19-23): Given below is a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference

separately in the context of the passage and decide upon its truth or falsity. Mark answer (a) if you think the inference is 'definitely true', i.e., it properly follows from the statement of facts given, mark answer (b) if you think the inference is 'probably true' though not 'definitely true', in the light of the facts given, mark answer (c) if you think the data are inadequate, i.e., from the facts given you cannot say whether the inference is likely to be true or false, mark answer (d) if you think the inference is 'probably false' though not 'definitely false' in the light of the facts given and mark answer (e) if you think the inference is definitely false, i.e., it cannot possibly be drawn from the facts given or it contradicts the given facts.

Now read the following passage and the inferences given below it and mark your answers on the separate answersheet.

Gujarat has hardly 8.5 per cent of its total area under forest. Of this a considerable portion is covered by wild grass and marshes. Denuded of thick forests, fauna have disappeared from many places. Mandvi, for instance, had its share of panthers once. The State Government has imposed a total ban on cutting of trees for five years from this year. The imminent destruction of over 40,000 hectares of forest land by the Narmada project has led to nationwide strong protest.

19. People in Gujarat are quite conscious of the need of conservation of forests.

- (a) (b) (c) (d) (e)

20. There is thick forest in 8.5 per cent of the total area of Gujarat.

- (a) (b) (c) (d) (e)

21. Gujarat is the first State in India to impose a total ban on cutting of trees.

- (a) (b) (c) (d) (e)

22. A dam on the Narmada river is planned.

- (a) (b) (c) (d) (e)

23. Once there was thick forest in Mandvi.

- (a) (b) (c) (d) (e)

Directions (Qns. 24-28): In each of the questions below are given three statements followed by four conclusions numbered I, II, III and

IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

24. Statements

Some grains are pulses. All vegetables are fruits. All pulses are vegetables.

Conclusions

- I. Some grains are vegetables.
 - II. All vegetables are pulses.
 - III. All fruits are grains.
 - IV. All vegetables are grains.
- a) Only I and II follow.
 b) Only II follows.
 c) Only I and IV follow.
 d) Only II and IV follow.
 e) None of these.

25. Statements

Some ships are boats. All boats are submarines. Some submarines are yatches.

Conclusions

- I. Some yatches are boats.
 - II. Some submarines are boats.
 - III. Some submarines are ships.
 - IV. Some yatches are ships.
- a) All follow.
 b) Only II and III follow.
 c) Only III follows.
 d) Only either III or IV follows.
 e) None of these.

26. Statements

All letters are numbers. Some graphs are letters. All sheets are graphs.

Conclusions

- I. All sheets are numbers.
 - II. Some sheets are letters.
 - III. Some numbers are graphs.
 - IV. All graphs are numbers.
- a) Only I follows.
 b) Only II follows.
 c) Only I and III follow.
 d) Only III follows.
 e) None of these.

27. Statements

Most doctors are engineers. No engineer is a pilot. All pilots are doctors.

Conclusions

- Some engineers are doctors.
 - All doctors are pilots.
 - No pilot is an engineer.
 - Some pilots are engineers.
- (a) Only I follows.
 (b) Only II and III follow.
 (c) Only I and III follow.
 (d) Only either III or IV follows.
 (e) None of these.

28. Statements

All files are folders. All folders are boxes. All boxes are drawers.

Conclusions

- All folders are drawers.
 - All boxes are files.
 - All files are drawers.
 - All drawers are folders.
- (a) Only I and II follow.
 (b) Only I and III follow.
 (c) Only II and III follow.
 (d) All follow. (e) None of these.

Directions (Qns. 29-31): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

- If the data in Statement I are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.
- If the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.
- If the data either in Statement I alone or in Statement II alone are sufficient to answer the question.
- If the data given in both the Statements I and II together are not sufficient to answer the question, and
- If the data in both the Statements I and II together are necessary to answer the question.

29. How many toys does Anket have?

- Anket has 3 toys more than what Tejas has.
- Mangesh has 7 toys which are 5 more than what Shailesh has and 2 less than what Tejas has.

(a) (b) (c) (d) (e)

30. Which of the five airlines A, B, C, J and S is the best?

- J airlines is better than S airlines, A airlines and C airlines, but not as good as B airlines.
- J airlines is better than C airlines but not as good as B which is better than S airlines.

(a) (b) (c) (d) (e)

31. The Coral Island is towards which direction from city S?

- The museum is to the North of city S and to the East of Coral Island.
- The musical fountain is to the West of City S and to the South of Coral Island.

(a) (b) (c) (d) (e)

32. How is D related to C?

- A told B that C is father's nephew.
- D is A's cousin but not brother of C.

(a) (b) (c) (d) (e)

33. What is the number of girls in the second half of the row?

- In a row of 36 pupils, there are 8 boys and 28 girls.
- In a row of 36 pupils, the first boy is followed by one girl, the second boy is followed by 2 girls, the third boy by 3 girls and so on.

(a) (b) (c) (d) (e)

Directions (Qns. 34-38): Study the following information and answer the questions given below:

An alphabetical machine, when given an input of words rearranges them following a particular rule in each step. The following is an illustration of input and steps of rearrangement.

- input : all that glitters is not gold but silver
 Step 1 : but silver glitters is not gold all that
 Step 2 : but silver not gold glitters is all that
 Step 3 : silver not but gold glitters that is all

- Step 4 : silver not glitters that but gold is all
 Step 5 : not glitters silver that but all gold is
 Step 6 : not glitters but all silver that gold is

34. If the 5th step is "almost every week we celebrate some family function". Then what will be the 2nd step?

- a) celebrate week almost family every function some we
- b) week almost celebrate family every we function some
- c) celebrate week every function almost family some we
- d) some we every function almost family celebrate week
- e) None of these.

35. Following the same sequence what will be the 7th step for the input "make hay while the sun or moon shines"?

- a) sun moon while make shines or hay the
- b) while moon shines the sun make hay or
- c) sun while moon make shines hay or the
- d) while moon sun make shines the hay or
- e) None of these.

36. If input is "our villages are totally committed only to agriculture", then which of the following will be step 4?

- a) committed are agriculture villages to our only totally
- b) agriculture committed are villages to only totally our
- c) agriculture committed to only are villages totally our
- d) committed are to our agriculture villages only totally
- e) None of these.

37. If the input is "is replaced your defective get it if booklet" then what will be the 5th step?

- a) booklet get your replaced if it defective is
- b) get your booklet replaced if is it defective
- c) get your booklet replaced if it is defective
- d) get your if is booklet replaced it defective
- e) None of these.

38. If the second step is "doctor away keeps the a day an apple" then which of the following will be the 5th step?

- a) a doctor keeps an away day apple the
- b) away keeps a apple doctor the day an

- c) keeps a away apple doctor an the day
- d) keeps a doctor an away apple the day
- e) None of these.

Directions (Qns. 39-42): In each question below is given a statement followed by two courses of actions numbered I and II. A course of action is a step or administrative decisions to be taken for improvement, follow-up, or further action in regard to the problem, policy, etc. on the basis of the information given in the statement. You have to assume everything in the statement to be true, then decide which of the two given suggested courses of action logically follows for pursuing.

Give answer: (a) if only I follows; (b) if only II follows; (c) if either I or II follows; (d) if neither I nor II follows; and (e) if both I and II follow.

39. Statement

There are hundreds of villages in Maharashtra experiencing acute shortage of drinking water. In these parts rains are likely to affect polling for Lok Sabha seats next week. However, the question now assumes urgency is whether the rains will bring sufficient relief to these villages or not.

Courses of Action

- I. Elections in these villages should be postponed because of scarcity of drinking water.
- II. The Government of Maharashtra should periodically collect information about the drinking water conditions in these villages to provide relief if necessary.

- (a) (b) (c) (d) (e)

40. Statement

Last year most of the districts in Maharashtra were affected by floods and the Government spent Rs. 78 crore on relief work. This year also heavy rains are expected later in the rainy season.

Courses of Action

- I. The Government of Maharashtra should begin to take precautionary measures immediately.
- II. People in flood affected areas last year should be educated to prevent avoidable losses.

- (a) (b) (c) (d) (e)

41. Statement

Last year most of the districts in Maharashtra were affected by floods and the Government spent Rs. 78 crore on relief work. This year also heavy rains are expected later in the rainy season.

Courses of Action

- I. The Government should not spend such a huge amount on relief measures.
 - II. The Government need not do anything on the basis of the prediction of heavy rains during this season.
- (a) (b) (c) (d) (e)

42. Statement

'Everyday eleven persons get killed or disabled while crossing the railway lines. Since June 2000, fine for crossing the railway line is Rs. 1,000. Yet several persons cross the railway lines'—a report of Western Railway.

Courses of Action

- I. This report should be given wide publicity periodically in mass media to appeal to the better sense of human being.
 - II. Useless activity of collecting information about such events should be stopped.
- (a) (b) (c) (d) (e)

Directions (Qns. 43-46): In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer: (a) if only assumption I is implicit; (b) if only assumption II is implicit; (c) if either I or II is implicit; (d) if neither I nor II is implicit; and (e) if both I and II are implicit

43. Statement

"Use 'X' brand shoes. They are available in all sizes and last longer"—an advertisement in the newspaper 'A'.

Assumptions

- I. Some people do not know about 'X' brand shoes.
 - II. People generally prefer shoes which last longer.
- (a) (b) (c) (d) (e)

44. Statement

"Use 'X' brand shoes. They are available in all sizes and last longer"—an advertisement in the newspaper 'A'.

Assumptions

- I. Very few people read advertisement in a newspaper
 - II. Very few people read the newspaper 'A'.
- (a) (b) (c) (d) (e)

45. Statement

"Please do not wait for me, I may be late, start taking lunch as soon as the guests arrive"—a message from a Director of a Company to his Office Managers.

Assumptions

- I. Keeping guests waiting is not desirable.
 - II. Lunch may not be ready in time.
- (a) (b) (c) (d) (e)

46. Statement

"Give this packet to Mr. 'X' at his residence and return immediately. In case you are likely to be late inform me"—Mr. 'A' tells his clerk.

Assumptions

- I. The clerk may not obey Mr. A's instructions.
 - II. The clerk may not inform his late coming unless instructed
- (a) (b) (c) (d) (e)

Directions (Qns. 47-50): In making decisions about important questions, it is desirable to be able to distinguish between "strong" arguments and "weak" arguments so far as they relate to the question. "Strong" arguments are those which are both important and directly related to the question. "Weak" arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question.

Instructions: Each question below is followed by two arguments I and II. You have to decide which of the arguments is a "strong" argument and which is a "weak" argument. Give answer:

- (a) if only argument I is "strong".
- (b) if only argument II is "strong".
- (c) if either I or II is "strong".
- (d) if neither I nor II is "strong".
- (e) if both I and II are "strong".

47. Should strikes be banned in essential services?

Arguments

- I. Yes, because strikes disrupt the normal life.
 II. No, because it is the democratic right of the people.

(a) (b) (c) (d) (e)

48. In India should Income tax be abolished?

Arguments

- I. Yes, because it is an unnecessary burden on the wage earners.
 II. No, because it is a good source of revenue.

(a) (b) (c) (d) (e)

49. Is pen mightier than sword?

Arguments

- I. Yes, because writers influence the thinking of the people.
 II. No, because with the help of physical force one can conquer all.

(a) (b) (c) (d) (e)

50. Should the press in India be given full freedom?

Arguments

- I. Yes, because only then people will become politically enlightened.
 II. No, because full freedom to press will create problems.

(a) (b) (c) (d) (e)

Directions (Qns. 51-55): Study the following series and answer the questions:

p r p q r p p p r p q r q r p r p r q q r r p r q p r
 q r r q p r q p r

51. If every alternate p is replaced by c and every alternate r is replaced by k then which will be the 13th letter from the right from the 2nd letter from the left?

a) r b) c
 c) q d) p
 e) k

52. How many 'q's are neither immediately preceded by r nor immediately followed by p?

- a) 3 b) 2
 c) 1 d) 4
 e) None of these.

53. If every third letter starting from the left is replaced by a number beginning with 1 then which letter/number will be 16th from right?

a) q b) r
 c) 6 d) 7
 e) None of these.

54. How many 'p's are there each of which is immediately preceded by r but not immediately followed by q?

a) 3 b) 4
 c) 2 d) 5
 e) None of these.

55. Insert g after every fifth letter in the above series. Then insert n after every third letter in this revised series. Now, which letter will be 6th to the left of 20th letter from the right?

a) n b) q
 c) r d) g
 e) p

Directions (Qns. 56-60): In the following questions, there are seven members, 4 men and 3 women in a family. They are L, M, N, O, P, Q and R. M is a businessman and father of P. Q is the paternal grandfather of P and is a Doctor. N, who is a housewife is daughter-in-law of O. R is P's uncle and is an advocate. There is one Architect, one Pilot and one Journalist in the family. N is not P's mother. O is not married to M. There are three married couples in the family.

56. If Q is the grandfather of a pilot, what is his daughter-in-law's profession?

a) Journalist b) Doctor
 c) Advocate
 d) Cannot be determined
 e) None of these.

57. If O is the Pilot and the Journalist is not a female, then P's profession is

a) Architect b) Journalist
 c) Doctor
 d) Cannot be determined.
 e) None of these.

58. If the Pilot does not have any child, then who is the Pilot?

- a) L b) N
- c) P d) Either (A) or (C)
- e) Either (B) or (C).

59. Which of the following is a group of male members?

- a) ORPM b) QMRP
- c) LQMR d) Either (B) or (C)
- e) None of these.

60. If P's mother is an Architect, which is the set of 3 couples?

- a) ML, RN, QO b) RO, ML, QN
- c) QO, RN, PL
- d) Cannot be determined
- e) None of these.

Directions (Qns. 61-65): In each of the following questions, a related pair of figures is followed by five numbered pairs of figures. Select the pair that has a relationship similar to that in the unnumbered pair. The best answer is to be selected from a group of fairly close choices.

Study the following question:



- (a) (b) (c) (d) (e)

In this question element II of unnumbered figure is related to the element I of the figure in a certain way. Element II has one side more than the element I. The pair in the figure No. (e) has the same relationship. Therefore, (e) is the answer.

Now answer the following questions.

61.

- (a) (b) (c) (d) (e)

62.

- (a) (b) (c) (d) (e)

63.

- (a) (b) (c) (d) (e)

64.

- (a) (b) (c) (d) (e)

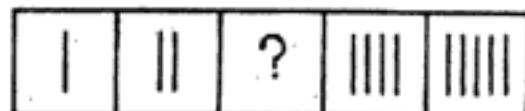
65.

- (a) (b) (c) (d) (e)

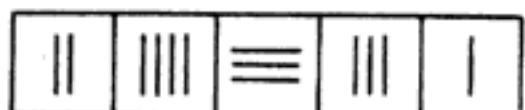
Directions (Qns. 66-70): In each of these questions there are two sets of figures – Problem Figures (four figures and one question-marked space) and Answer Figures indicated by (a), (b), (c), (d) and (e). A series is established if one of the five Answer Figures is placed at the "question-marked space". Question Figures form a series if they change from left to right according to some rule. The number of Answer Figure which should be placed in the question-marked space is the answer. All the five figures, i.e., four Problem Figures and one Answer Figure placed in the question-marked space should be considered as forming the series.

Study the following question

Problem Figures



Answer Figures



- (a) (b) (c) (d) (e)

If we place the Answer Figure (d) in the question marked space it makes a series which indicates that one vertical line is added in each figure. So the answer is (d). Note that if we go by only one aspect of 'number of lines', Answer Figure (c) may also fit in. So you have to consider all different aspects.

Now answer the following questions.

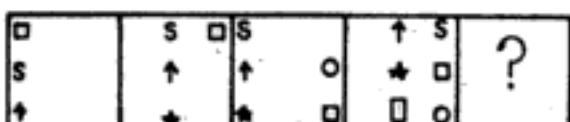
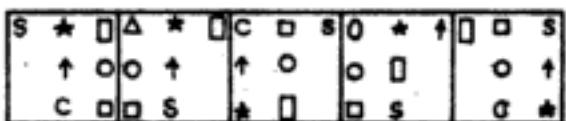
66. Problem Figures



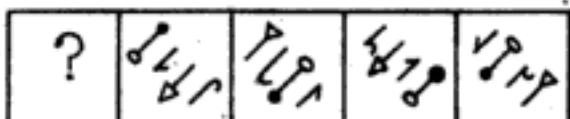
Answer Figures



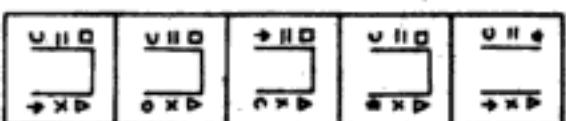
- (a) (b) (c) (d) (e)

67. Problem Figures**Answer Figures**

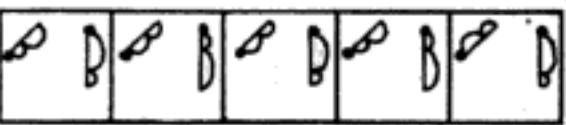
- (a) (b) (c) (d) (e)

68. Problem Figures**Answer Figures**

- (a) (b) (c) (d) (e)

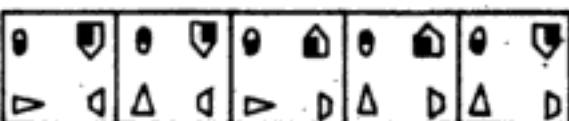
69. Problem Figures**Answer Figures**

- (a) (b) (c) (d) (e)

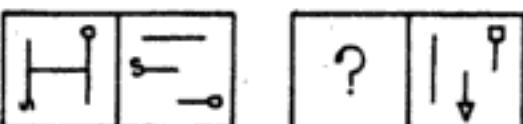
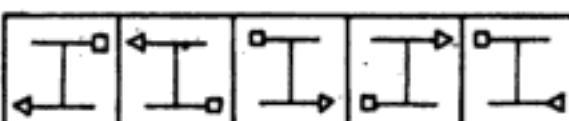
70. Problem Figures**Answer Figures**

- (a) (b) (c) (d) (e)

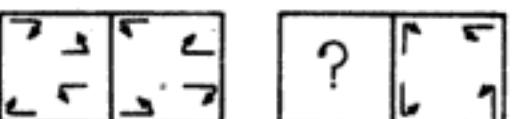
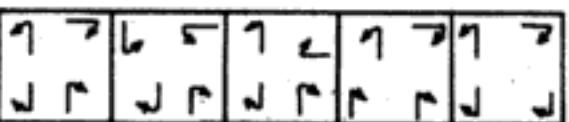
Directions (Qns. 71-75): The first figure in the first unit of the Problem Figures bears a certain relationship to the second figure. Similarly one of the figures in the answer figures bears the same relationship to the second figure in the second unit of the Problem Figures. You are therefore to locate the figure which would fit in the question mark.

71. Problem Figures**Answer Figures**

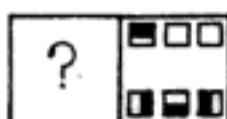
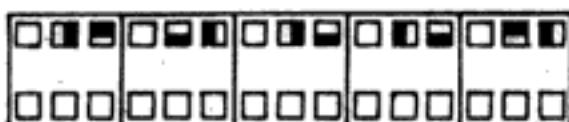
- (a) (b) (c) (d) (e)

72. Problem Figures**Answer Figures**

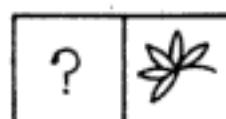
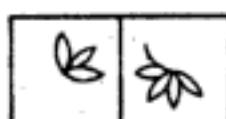
- (a) (b) (c) (d) (e)

73. Problem Figures**Answer Figures**

- (a) (b) (c) (d) (e)

74. Problem Figures**Answer Figures**

- (a) (b) (c) (d) (e)

75. Problem Figures**Answer Figures**

- (a) (b) (c) (d) (e)

QUANTITATIVE APTITUDE

76. A shopkeeper offered a discount of 15% on the labelled price. By selling an article for Rs. 340 after giving discount he earned a profit of $13\frac{1}{3}\%$. What would have been the per cent profit earned if no discount was offered?

- a) $28\frac{1}{3}$ b) $30\frac{1}{3}$
 c) $27\frac{1}{3}$ d) $33\frac{1}{3}$
 e) None of these.

77. From 3 men and 4 women, three persons are to be selected in such a way that at least one woman is selected. In how many different ways can they be selected?

- a) 60 b) 42
 c) 21 d) 36
 e) None of these.

78. The square of a positive integer is more than its five times by 14. What is the positive integer?

- a) 4 b) 2
 c) 7
 d) Cannot be determined.
 e) None of these.

79. A boat covers a distance of 30 km in $2\frac{1}{2}$ hours running down streams. While returning, it covers the same distance in $3\frac{1}{4}$ hours. What is the speed of the boat in kmph?

- a) 12 b) 8
 c) 14 d) 15
 e) None of these.

80. In how many different ways can the letters of the word 'DISTANCE' be arranged so that all the vowels come together?

- a) 720 b) 4320
 c) 4032 d) 1440
 e) None of these.

Directions (Qns. 81-83): These questions are based on the following information :

In a class of 50 students, 26% students play only cricket, 18% students play only badminton, 10% students play only football, 20% students play only badminton and cricket, 12% students play only cricket and football and 8% students play only football and badminton. 6% students play all three games.

81. Total how many students play cricket?

- a) 26 b) 19
 c) 23 d) 32
 e) None of these.

82. Total how many students play football?

- a) 15 b) 18
 c) 12 d) 13
 e) None of these.

83. How many students play both the games badminton and football?

- a) 7 b) 4
 c) 3 d) 13
 e) None of these.

84. What approximate value will come in place of the question mark (?) in the following equation?

$$7.05 \times 29.99 + ? = 300.59$$

- a) 110 b) 95
 c) 90 d) 98
 e) 112

85. Four of the following five parts numbered (a), (b), (c), (d) and (e) are exactly equal. The number of the part which is not equal to the other four parts is your answer.

$$28\% \text{ of } 450 + 4 = 2.5 \times 36 + 0.8 \times 50 =$$

- (a) (b)
 $\frac{2}{3}$ of 195 = 0.8 × 160 + 2 =
 (c) (d)

$$86\% \text{ of } 150 + 3$$

- (e)

Directions (Qns.86-90): In each of the following number series only one number is wrong. Find out that wrong number.

86. 4, 6, 14, 51, 220, 1125, 6786

- a) 51 b) 14
 c) 6 d) 1125
 e) 220

87. 5, 12, 7, 10, 3, 8, 2

- a) 12 b) 7
 c) 10 d) 3
 e) 8

88. 4, 7, 16, 46, 124, 367, 1096

- a) 367 b) 7
 c) 16 d) 46
 e) 124

89. 9, 12, 30, 102, 288, 570, 568

- a) 570 b) 288
 c) 12 d) 30
 e) 102

90. 4, 2, 3, 7.5, 26.25, 118.725, 649.6875

- a) 118.725 b) 26.25
 c) 7.5 d) 3
 e) 2

Directions (Qns. 91-95): These questions are based on the following table:

Numbers of items (in lakhs) produced by six companies over the years

Company \ Year	1997	1998	1999	2000	2001
P	38.5	53.4	48.6	76.4	56.5
Q	106.0	68.6	62.7	98.9	72.8
R	65.4	72.8	63.5	82.5	86.5
S	48.5	96.5	78.6	91.5	92.8
T	52.6	99.8	82.2	102.8	89.5
U	78.4	103.4	88.9	110.7	98.4

91. Approximately, what is the ratio between total production of companies P, Q and R in 2000 and the total production of Companies S, T and U in that year respectively?

- a) 17 : 19 b) 18 : 19
 c) 13 : 15 d) 13 : 17
 e) 16 : 21

92. What was the average production (in lakhs) of all the companies in year 1999?

- a) 69.25 b) 70.75
 c) 84.42 d) 76.50
 e) None of these.

93. Production of Company S in 1999 is what per cent of the total production of the company for all the given years? (rounded off to two digits after decimal)

- a) 19.27 b) 19.36
 c) 21.22 d) 23.19
 e) None of these.

94. Approximately what was the percentage increase in production of Company R from 1999 to 2000?

- a) 22 b) 38
 c) 35 d) 25
 e) 30

95. Total production of Company S for all the given years is what per cent of the total production of Company Q for all the given years? (rounded off to the nearest integer)

- a) 72 b) 68
 c) 69 d) 67
 e) None of these.

Directions (Qns. 96-100): In each of these questions, a question is followed by information in three statements. You have to study the questions along with the information given in the statements and decide which of the statement(s) is necessary and sufficient to answer the question.

96. What is the overall percentage of marks obtained by Sudha in all five subjects?

- I. Sudha scored 75% marks in Maths & Science together.
- II. Her aggregate marks in History and Science are 72%.
- III. She has scored 85% marks in Sanskrit.
- a) All of these.
- b) I and either II or III
- c) III and either I or II
- d) Any two of the three.
- e) Question cannot be answered even with the information in all three statements

97. What is the speed of the train in kmph?

- I. Length of the train is 240 metres.
- II. The train crosses a 320 metres long platform in 24 seconds.
- III. Crosses another stationary train in 18 seconds.
- a) II and III only
- b) I and either II or III
- c) I and II only
- d) II and either I or III
- e) None of these.

98. What is the area of the rectangular field?

- I. Perimeter of the field is 98 metres.
- II. Length of the diagonal is 35 metres.
- III. Sides of the rectangle are in the ratio of 3 : 4.
- a) All I, II and III
- b) Any two of the three.
- c) I and III only d) I and II only
- e) None of these.

99. What is Neeta's present age?

- I. Ratio between present ages of Neeta and Geeta is 3 : 4 respectively
- II. Seven years hence the respective ratio of their ages will be 4 : 5
- III. Seven years ago Neeta's age was two-third of Geeta's age that time

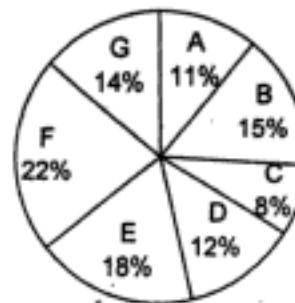
- a) I and II only
- b) I and III only
- c) II and III only
- d) Any two of the three.
- e) All of these.

100. How many boys are there in the class?

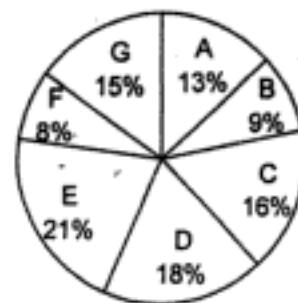
- I. Boys and girls are in the ratio of 5 : 7 respectively.
- II. Number of girls is more than the number of boys by 12.
- III. Number of girls is 140% of the number of boys.
- a) II and either I or III
- b) I and III only
- c) II and III only
- d) I and II only
- e) None of these.

Directions (Qns. 101-105): Study the following graphs carefully to answer these questions:

Statewise Distribution of Male Population



Statewise Distribution of Female Population



Total of Male Population = 39 lakhs

Total of Female Population = 32 lakhs

101. What is the ratio between male population of States A and B together and the female population of these two States together respectively?

- a) 704 : 507
- b) 507 : 704
- c) 352 : 507
- d) 507 : 352
- e) None of these.

102. What is the ratio between female population of State 'G' and the male population of State 'E' respectively?

- a) 39 : 40
- b) 40 : 39
- c) 17 : 18
- d) 19 : 20
- e) None of these.

103. What is the total population of State 'F' (in lakhs)?

- a) 11.14
- b) 8.58
- c) 6.52
- d) 14.11
- e) None of these.

104. Female population of State C is what per cent of the total population of that State? (rounded off to the nearest integer)

- a) 48
- b) 56
- c) 62
- d) 59
- e) None of these.

105. Approximately what is the average population of the given States (in lakhs)?

- a) 6.5
- b) 8
- c) 4.6
- d) 5.6
- e) 10

106. What approximate value will come in place of the question mark (?) in the following equation?

$$(15.01)^2 + \sqrt{81.009} \times 32 = ?$$

- a) 498
- b) 369
- c) 611
- d) 288
- e) 513

107. Which of the following values of 'x' will satisfy the inequality $x^2 + 12 > 7x$?

- a) $x > 4$ or $x < 3$
- b) $-4 < x < 4$
- c) $-4 < x < 3$
- d) $-3 < x < 3$
- e) None of these.

108. The number obtained by interchanging the digits of a two-digit number is more than the original number by 45. If the digit in the unit place of the original number is more than the digit in ten's place by 5, what is the original number?

- a) 83
- b) 49
- c) 38
- d) Cannot be determined.
- e) None of these.

109. Three-fourth of a number is equal to 60% of another number, and the difference between the two numbers is 20. What is the sum of the two numbers?

- a) 220
- b) 180
- c) 170
- d) Cannot be determined.
- e) None of these.

110. Which of the following has the fractions in descending order?

- a) $\frac{7}{8}, \frac{5}{6}, \frac{9}{11}, \frac{11}{13}$
- b) $\frac{5}{6}, \frac{7}{8}, \frac{11}{13}, \frac{9}{11}$
- c) $\frac{5}{6}, \frac{7}{8}, \frac{9}{11}, \frac{11}{13}$
- d) $\frac{7}{8}, \frac{11}{13}, \frac{5}{6}, \frac{9}{11}$
- e) None of these.

111. Abhijit borrowed Rs. 15,000 from Nisha at compound interest rate of 12 pcpa. How much money should Abhijit pay at the end of 2 years to settle the loan?

- a) Rs. 18,600
- b) Rs. 18,816
- c) RS. 18,618
- d) Rs. 18,869
- e) None of these.

112. Capacity of a cylindrical vessel is 25.872 litres. If the height of the cylinder is three times the radius of its base, what is the area of the base in square cm?

- a) 336
- b) 1232
- c) 616
- d) Cannot be determined.
- e) None of these.

113. Mr. Ramesh spends 25% of his monthly salary on household expenditure, 20% of the remaining on children's education, and the remaining is equally invested in three different schemes. If the amount invested in each scheme is Rs. 5,600, what was the monthly salary of Mr. Ramesh?

- a) Rs. 28,000
- b) Rs. 21,000
- c) Rs. 24,000
- d) Cannot be determined.
- e) None of these.

114. If $\frac{68}{7} = \frac{y}{17}$, then what is the value of y?

- a) 38
- b) 17
- c) 34
- d) 19
- e) None of these.

115. What approximate value will come in place of the question mark (?) in the following equation?

$$84.95\% \text{ of } 280 + V? = 253.001$$

- a) 256
- b) 324
- c) 18
- d) 15
- e) 225

Directions (Qns. 116-120): Study the following table to answer these questions?

Percentage of marks obtained by five students in five different subjects

Subject \ Student	Philosophy (75)	Psychology(80)	Sociology(60)	History (60)	Maths (125)
A	48	75	65	73	79
B	62	69	77	55	66
C	78	58	61	46	85
D	56	72	82	63	78
E	66	85	74	71	89

Note: Maximum marks are given in bracket for each subject.

116. What are the average marks of all students out of 80 in Psychology?

- a) 58.24
- b) 71.80
- c) 57.44
- d) 72.10
- e) None of these.

117. What is the average percentage of marks obtained by all students in History?

- a) 39.96
- b) 62.60
- c) 46.26
- d) 63.10
- e) None of these.

118. What is the ratio between the marks obtained by A in Philosophy and Maths together, and the marks obtained by him in other three subjects together respectively?

- a) 408 : 385
- b) 385 : 408
- c) 19 : 20
- d) 20 : 19
- e) None of these.

119. What are total marks obtained by E in all subjects together?

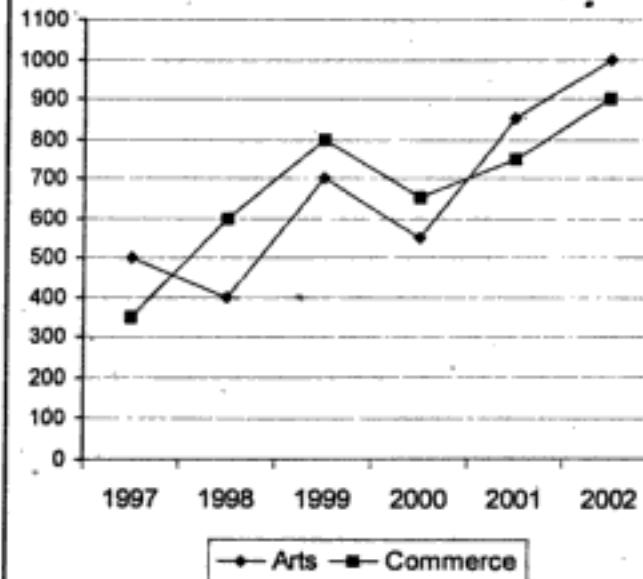
- a) 325
- b) 385.15
- c) 385
- d) 315.75
- e) None of these.

120. What is the overall percentage of marks obtained by C in all subjects? (rounded off to nearest integer)

- a) 69
- b) 68
- c) 66
- d) 67
- e) None of these.

Directions (Qns. 121-125): Study the following graph carefully to answer these questions?

Number of students studying Arts and Commerce in an institute over the years



121. During which of the following years was the percentage increase/decrease in number of students studying Arts from the previous year was the minimum?

- a) 1998
- b) 1999
- c) 2000
- d) 2001
- e) 2002

122. If the number of students studying Commerce in year 2000 was increased by 20% and the number of students studying Arts in the same year was decreased by 10%, what would have been the total number of students studying Arts and Commerce in 2000?

- a) 1285
- b) 1375
- c) 1385
- d) 1275
- e) None of these.

123. Approximately what was the percentage increase in number of students studying Arts and Commerce together from 1997 to 2002?

- a) 115
- b) 55
- c) 75
- d) 125
- e) 110

- 124.** What was the average number of students studying Commerce for the given years?
- 675
 - 667
 - 716
 - 765
 - None of these.

- 125.** What is the ratio between the total number of students studying Arts and Commerce together in 1999 and in 2001 respectively?
- 8 : 9
 - 15 : 19
 - 11 : 15
 - 7 : 10
 - None of these.

GENERAL AWARENESS

126. Prime Minister of India was recently on a visit to Tajikistan where he signed some agreements of bilateral interests. Which of the following is true about the same?

- A joint working group to combat international terrorism was formed.
 - Both of them decided to intensify their defence cooperation and build a highway linking them through Afghanistan and Chabbar port in Iran with the sea link.
 - An Indo-Tajik IT Centre will be established.
- Only I
 - Only II
 - Only III
 - Only I and II
 - All of these.

127. Anna Kournikova, who was in India recently, is a famous

- cine artiste from Russia.
- author who got Booker Prize for her debut novel.
- tennis player from Russia.
- cricketer.
- None of these.

128. Which of the following countries in the vicinity of India has warned travellers to and from India to check and take precautions against Dengue?

- Nepal
- Pakistan
- China
- Bangladesh
- Sri Lanka.

129. The Chief Minister of which of the following States recently recommended dissolution of State Assembly so that new elections can take place there?

- Andhra Pradesh
- Karnataka
- Tamil Nadu
- Kerala
- None of these.

130. The currency of China is known as

- Euro
- Yen
- Dollar.
- Taka
- None of these

131. India, along with which of the following countries, conducted its first ever joint naval exercise recently?

- Myanmar
- Bangladesh
- Sri Lanka
- Vietnam
- China

132. The first SAARC Health Ministers' Conference was recently organised in which of the following cities?

- New Delhi
- Kathmandu
- Islamabad
- Colombo
- None of these.

133. As a part of its Children's Day celebrations which of the following States decided to issue 'Birth Certificates' to about 19 lakh children who were born in last 10 years in the State but were living without a proper 'Birth Certificate' up till now?

- Haryana
- Uttar Pradesh
- Bihar
- Punjab
- Andhra Pradesh

134. Which of the following States in India is a major producer of Jute?

- Uttar Pradesh
- West Bengal
- Bihar
- Tamil Nadu
- None of these.

135. The Commonwealth Games scheduled in which of the following years will be organised in Delhi?

- 2004
- 2008
- 2010
- 2012
- None of these.

29. Which of the following is/are not true about the Cotton price scheme of the Maharashtra Govt which was recently implemented?
 1) Indonesia 2) Myanmar
 3) Nepal 4) Ethiopia
 5) None of these
30. Which of the following will be the effect of the Protection from Domestic Violence Bill-2002, pending with the Parliament?
 1) Separation or divorce will become very easy as simply an FIR of consistent violence for more than a year will be sufficient to get divorce or separation
 2) All those women who are forced to live in bigamous or consanguineous relationships will be free to come out of it or will get the status of a legally married woman
 3) The conviction may face a fine or/and one year's imprisonment
 4) Only A 5) Only B & C
31. Which of the following Indian oil companies has bid for construction and operation of an oil pipeline between Iraq and Jordan?
 1) Hindustan Petroleum Corporation Ltd
 2) Indian Oil Corporation Ltd (IOC)
 3) Bharat Petroleum Corporation Ltd (Bpcl)
 4) Reliance Petroleum Ltd
 5) Oil and Natural Gas Commission (ONGC)
32. India has decided to export about 2700 tonnes what to which of the following countries?
 1) National Stock Exchange Board of India
 2) Authority
 3) Registrar of Companies
 4) Reserve Bank of India
 5) Securities and Exchange Board of India
33. Which of the following organisations has imposed a ban on stock brokers who act as insurance brokers?
 1) SEBI
 2) SΕΒΙ
 3) CII
 4) FICCI
 5) IRDA
34. Some big banks and financial companies in India. What would be the effect of this plan?
 1) are planning to launch 'Vulture Funds'
 2) Some provisions of the Securities and Exchange Commission of India (SEBI) will come down
 3) Ordinance will have to be scrapped as of banks
 4) Small investors will have another good opportunity to invest in such venture funds as the returns by them will always be very attractive
 5) None of these
35. A foreign bank willing to do business in India can open maximum how many branches in the country?
 1) 10
 2) 12
 3) 14
 4) 18
 5) None of these
36. To whom were the Stock Brokers paid a sum-over fee on 30th November, 2002?
 1) National Stock Exchange
 2) Insurance Regulatory & Development Authority
 3) National Stock Exchange
 4) Reserve Bank of India
 5) Securities and Exchange Board of India

37. The 32nd National Games took place at 2002? SURA's P.O. Original Question Paper (2003)
38. If the Call Centres wish their women employees to work till late night or in night shifts after 8 pm, the provision of which of the following acts would be required to be amended? National Capital Region
39. Who amongst the following is the recipient of the Nobel Peace Prize National Capital Region
40. It is generally seen that Govt insists on having at least 26% stake in any PSU. What is the importance of this figure 26% National Capital Region
41. Which of the following is the target for the 10th Five-Year Plan approved recently for Taxes/GDP ratio in 2006-07? National Capital Region
- | | | | | |
|--------------|------------|-----------|--------------|---------------|
| 1) New Delhi | 2) Chennai | 3) Jaipur | 4) Hyderabad | 5) Chandigarh |
| 1) 8% | 2) 8.3% | 3) 9% | 4) 9.6% | 5) 10.3% |
42. Choose the alternative which completes the following statements correctly in referring to global economic scenario. The capacities of the ports in India have gone up. The turnover of cargo ships is still below international standards at par with international standards the same as it was ten years back not as per the capacity of the available facilities, though at par with international standards very much irregular and unpredictable National Capital Region
43. Some people feel that the Higher Education System in India needs a radical surgery. Which of the following statements of fact support(s) this? National Capital Region
44. As reported in a section of press, India has good reserves of foreign exchange. Which of the following may get least affected by this situation? National Capital Region
- | | | | | |
|------------|------------------------|------------|--|-----------------|
| 1) Imports | 2) Balance of Payments | 3) Exports | 4) Market situation in the events of the outbreak of war | 5) All of these |
|------------|------------------------|------------|--|-----------------|
45. Recently, Reserve Bank of India on international level has advocated that developing countries should get more hard and fast rule for the same amount Govt prefers, though there is no investment by it in the venture. 26% is the company unless more than 1/4 capital is Govt cannot take over or float any any rationale National Capital Region
- | | | | | |
|---|---|---|---|---|
| 1) It is just a practice and does not have sign loan documents etc. whose stakes are more than 1/4. | 2) Only those partners or stake holders can little higher than others | 3) Only loan documents etc. whose stakes sign loan documents etc. whose stakes are more than 1/4. | 4) It is just a practice and does not have sign loan documents etc. whose stakes are more than 1/4. | 5) Govt cannot take over or float any any rationale |
|---|---|---|---|---|

219. Why were people taught little about leadership in management programmes?
- a) Teachers were busy in understanding the phenomenon of leadership.
- b) Enough study material was not available to facilitate teaching of leadership.
- c) Focus of these programmes was on developing managers.
- d) Leadership was considered only a political phenomenon.
- e) None of these.
220. What is the historical reason for many organisations not having leadership?
- a) A view that leaders are born, they are not made.
- b) Leaders lack managerial skills and organisations need managers.
- c) Leaders are weak in carrying out traditional functions of management.
- d) Leaders allow too much complacency in organisations.
- e) None of these.
221. Which of the following characteristics help organisations in their transformation
- a) Management on leadership but not efforts?
- b) A strong and dogmatic culture
- c) Bureaucratic and inward looking approach
- d) Falling to acknowledge the value of customers and shareholders
- e) None of these.
222. Why which of the following statements is/are definitely true in the context of the passage?
- I. Bureaucracy fosters strong and arrogant culture.
- II. Leadership competencies are nurtured in large size organisations.
- III. Successful transformation in organisations is 70 to 90 per cent leader ship.
- a) Only I and II
- b) Only I and III
- c) Only II and III
- d) Only I and III
- e) Only III
223. In the passage, management is equated with
- a) organisation.
- b) leadership.
- c) organisational vision.
- d) bureaucracy.
- e) managerial training.
224. Which of the following is similar in meaning of the word 'nurtured' as used in the passage?
- a) created
- b) developed
- c) thwarted
- d) surfaced
- e) halted.
225. Why does the attention of large organisations turn inward?
- a) Their managers become arrogant.
- b) They have to keep themselves under control.
- c) Their success creates market dominance.
- d) They want to project their predictability.
- e) None of these.

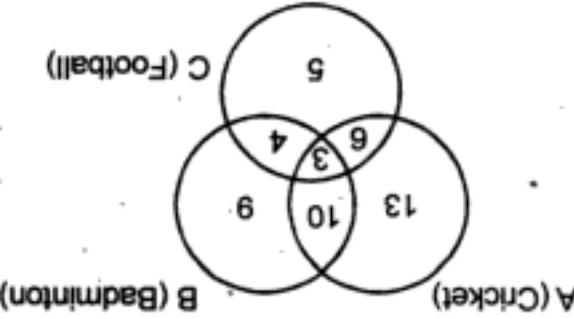
- 211. Which of the following is not the characteristic of bureaucratic culture?**
- a) Managers listen poorly and learn slowly
 b) Managerial competencies are nurtured
 c) Employee clearly sees the forces that present threats and opportunities
 d) Prevalecence of unhealthy attitudes
 e) Managers tend to stiffle initiative and innovation.
- 212. Which of the following statements is not true in the context of the passage?**
- a) Bureaucratic culture smothers those who want to respond to changing conditions
 b) Want to respond to changing conditions
 c) Leadership potential to establish direction
 d) Pressure on managers come mostly from within
 e) Managers believe that they are the best and that their idiosyncratic traditions are important functions such as planning and problem solving
- 213. Why did companies and universities develop programmes to prepare managers in such a large number?**
- a) Companies and Universities wanted to generate funds through these programmes
 b) The large number of organisations were created and they needed managers in good numbers
 c) Organisations did not want to spend their scarce resources in training managers
 d) Organisations wanted to create communication network through trained managers
 e) None of these
- 214. Management education was emphasised because**
- a) establishing direction was the main focus of organisations
 b) in the management programmes
 c) management was the main focus of these
 d) management people to realise the vision
 e) None of these
- 215. How has the author defined management?**
- a) It is the process of adapting organisations to changing circumstances.
 b) It is the system of aligning people with the direction it has taken.
 c) It refers to creating a vision to help direct the change effort.
 d) Creating performance through customer orientation.
 e) None of these.
- 216. Which of the following is similar in meaning of the word 'smother' as used in the passage?**
- a) Suppress
 b) Encourage
 c) Instigate
 d) Criticise
 e) Attack.
- 217. Why, according to the author is a distinction between management and leadership crucial?**
- a) Leaders are reactive whereas managers are proactive.
 b) Organisations are facing problems of not getting good managers.
 c) Organisations are pursuing the strategy of status quo.
 d) In today's context organisations need leaders much more than managers in transforming them.
 e) None of these.
- 218. What, according to the author, is leadership?**
- a) Process which keeps system of people and technology running smoothly.
 b) Planning the future and budgeting resources of the organisation.
 c) Inspiring people to realise the vision.
 d) Carrying out the crucial functions of management.
 e) None of these.

147. The Oriental Insurance Company has made a tie-up with which of the following banks for selling its general insurance products in India?
- (a) The Times of India
 - (b) The Hindu
 - (c) The Telegraph
 - (d) The Statesman
 - (e) None of these.
148. "Judiciary, Law Makers Set for Manila Showdown"—was the news headline recently. The word 'Aid' in the headline refers to which types of assistance to the country?
- (a) Assistance in the form of foreign aid by the Red Cross agencies.
 - (b) Foreign aid given by the World Bank/IMF, etc., for the development projects.
 - (c) Aid in the form of mediation to resolve the crisis between LTTE and Sri Lanka by some third party.
 - (d) Aid required to rebuild the nation after a separate province is created for the LTTE in near future.
 - (e) All of these.
149. Recently RBL has relaxed the import norms by starting that importers are not required to produce documents of import consignments so if the value of the foreign exchange remittance does not exceed US \$ 1 lakh. The earlier limit for such remittance was
- (a) US \$ 10,000
 - (b) US \$ 15,000
 - (c) US \$ 20,000
 - (d) US \$ 25,000
 - (e) US \$ 50,000
150. Now the RBI clearance will be mandatory for External Commercial Borrowings (ECBs) over the amount of
- (a) US \$ 5 million.
 - (b) US \$ 25 million.
 - (c) US \$ 35 million.
 - (d) US \$ 40 million.
 - (e) US \$ 50 million.
151. Which of the following newspapers published from India recently celebrated its 125th anniversary?
- (a) US \$ 5 million.
 - (b) US \$ 25 million.
 - (c) US \$ 35 million.
 - (d) US \$ 40 million.
 - (e) US \$ 50 million.
152. Which of the following insurance companies sold a record number of Varishta Bima Yojana Policies and earned Rs. 3,100 crore from the sales?
- (a) SBI Life
 - (b) Oriental Insurance
 - (c) General Insurance Corporation
 - (d) Life Insurance Corporation of India
 - (e) None of these.
153. Lanka Clash Cloud on Aid—was the headline in the leading newspaper recently. The word 'Aid' in the headline refers to which types of assistance to the country?
- (a) Assistance in the form of foreign aid by the Red Cross agencies.
 - (b) Foreign aid given by the World Bank/IMF, etc., for the development projects.
 - (c) Aid in the form of mediation to resolve the crisis between LTTE and Sri Lanka by some third party.
 - (d) Aid required to rebuild the nation after a separate province is created for the LTTE in near future.
 - (e) All of these.
154. Indian cricket team is likely to play in Pakistan after a gap of around
- (a) 10 years
 - (b) 12 years
 - (c) 15 years
 - (d) 18 years
 - (e) None of these.
155. US Scientist Paul C. Lauterbur and Briton Peter Mansfield won the Nobel Prize jointly for 2003 in the field of
- (a) Economics
 - (b) Chemistry
 - (c) Physics
 - (d) Medicine
 - (e) Peace
156. Who amongst the following decided to retire from first class cricket recently?
- (a) Virender Sehwag
 - (b) Rahul Dravid
 - (c) Jayawardene
 - (d) Sachin Tendulkar
 - (e) None of these.

157. US Senate agreed to put sanctions on which of the following countries recently for its role in supporting militants?
- Marginal and small farmers and their wards
 - Economically weaker sections of society
 - Widows and war widows who are not getting any pension
 - Children removed from hazardous industrial units
 - None of these.
158. India's external debt recently was reported to be of US \$ 109 billion. Which country was not contributing in this regard?
- Syria
 - Pakistan
 - Bangladesh
 - Iran
 - None of these.
159. Which of the following Indian player was selected for Life Time Achievement Award of the International Tennis Federation (ITF) recently?
- Jadeep Mukherjee
 - Leander Paes
 - Rohan Bopanna
 - Mahesh Bhupathi
 - All of these.
160. India is likely to become the world's most populous country by the year
- 2010
 - 2020
 - 2025
 - 2045
 - None of these.
161. Who among the following is the winner of Gandhi Peace Prize for 2003?
- Vaclav Havel
 - Nelson Mandela
 - Dr. Gerhard Fischer
 - Ms. Shirin Ebadi
 - None of these.
162. Which of the following organisations recently approved a centralised surveillance mechanism for the stock exchange in India?
- RBI
 - CII
 - SEBI
 - CBDT
 - None of these.
163. By a constitutional amendment the Union discussions of society in India?
- Only I
 - Only II
 - Only III and IV
 - Only I and II
 - None of these.
164. India recently launched its advanced communication satellite named as
- INSAT-2C
 - INSAT-3B
 - INSAT-3E
 - INSAT-3A
 - None of these.
165. The World Cup Football scheduled in 2006 is being organised in
- Brazil
 - Argentina
 - Germany
 - South Africa
 - None of these.
166. Bharat Jagdeo who was on a visit to India is the
- Prime Minister of Guyana
 - President of Guyana
 - President of Fiji
 - Prime Minister of Fiji
 - None of these.
167. Who among the following is the Chief Minister of Rajasthan at present?
- Ashok Gehlot
 - Uma Bharti
 - Digvijay Singh
 - Mayawati
 - None of these.
168. Which of the following statements is/are true about the political situation in Afghanistan at present?
- After long discussions Afghanistan has prepared a draft Constitution.
 - The draft constitution envisages an Islamic republic with a senate with all executive powers.
 - As proposed in the draft constitution the head of the nation would be a President.
 - The draft constitution would be a grand council or Loya Jirga.
 - The draft of the constitution would be discussed by the grand council or Loya Jirga.
169. India is likely to become the world's most populous country by the year
- 2010
 - 2020
 - 2025
 - 2045
 - None of these.
170. Who among the following is the winner of Gandhi Peace Prize for 2003?
- Vaclav Havel
 - Nelson Mandela
 - Dr. Gerhard Fischer
 - Ms. Shirin Ebadi
 - None of these.
171. Who among the following is the winner of Nobel Prize for Physics?
- 2004
 - 2005
 - 2006
 - 2007
 - None of these.
172. Which of the following organisations recently approved a centralised surveillance mechanism for the stock exchange in India?
- RBI
 - CII
 - SEBI
 - CBDT
 - None of these.
173. By a constitutional amendment the Union

109. Let the numbers be x and y and $x > y$
- $\therefore \frac{3}{4}y = 60 \Rightarrow 15y = 12x$
- $\Rightarrow 5y = 4x \dots(i)$ and $x - y = 20 \dots(ii)$
- $\therefore 4x - 4y = 80 \Rightarrow 5y - 4y = 80 \Rightarrow y = 80$
- $= \frac{359}{7} \times \frac{80}{100} = 57.44$
110. Average percentage
- $= \frac{73 + 55 + 46 + 63 + 71}{308} = \frac{5}{5} = 61.6$
111. Amount = $15000 \left(1 + \frac{12}{100}\right)^2$
- $= 15000 \times \frac{28}{25} \times \frac{25}{25} = \text{Rs. } 18,816$
112. Let the radius be x cm
- $\therefore \pi \times (\text{radius})^2 \times \text{height} = \text{Volume}$
- $\therefore \pi \times 65.6 \times 66 = 25872 \quad (\because 1 \text{ litre} = 1000 \text{ cc})$
- $\Rightarrow x^3 = \frac{25872 \times 7}{22 \times 3} = 2744$
- $\therefore x = \sqrt[3]{2744} = \sqrt[3]{7 \times 7 \times 7 \times 2 \times 2 \times 2}$
123. Total students in 1997 = $350 + 500 = 850$
124. Average
- $\Rightarrow y^2 = 17 \times 17 \times 2 \times 2 \Rightarrow y = 17 \times 2 = 34$
115. 84.95% of 280 + $\sqrt{?} = 253.001$
- $\Rightarrow 85\% \text{ of } 280 + \sqrt{?} = 253$
- Taking nearest integral values,
- $= \frac{350 + 600 + 800 + 650 + 750 + 900}{6} = 675$
125. Required ratio = $(700 + 800) : (750 + 850)$
- $\Rightarrow \frac{150}{100} + \sqrt{?} = 253 \Rightarrow \sqrt{?} = 253 - 238 = 15$
- $\Rightarrow \sqrt{?} = 15 \Rightarrow ? = (15)^2 = 225$

94. % increase = $\frac{(82.5 - 63.5)}{63.5} \times 100$
 $= \frac{19}{63.5} \times 100 = 31.66 = 30$
95. To know overall percentage of marks in all five subjects, we need percentage marks in each subject.
 If we take statements I and II together, then,
 $\text{Speed of train} = \frac{\text{Length of (train + platform)}}{\text{Time}}$
96. To know overall percentage of marks in all five subjects, we need percentage marks in each subject.
 If we take statements I and II together, then,
 $10 + 6 + 3 = 32.$
97. Required number of cricket players = $13 + 4 + 5 = 18.$
98. Required number of football players = $6 + 3 + 4 + 2 = 15.$
99. We have,
 Taking approximate values to nearest integer,
 $7 \times 30 + ? = 300 \Rightarrow ? = 300 - 210 = 90$
100. The given series is based on the following rule:
 Clearly, 7 is the wrong number.
 $4 \times 2 + 2 = 10$
 $10 \times 3 + 2 = 32$
 $32 \times 4 + 2 = 130$
 $130 \times 5 + 2 = 652$
 $652 \times 6 + 2 = 3914$
 $3914 \times 7 + 2 = 27400$
101. Required number of football players = $6 + 3 + 4 + 2 = 15.$
102. Female population of State G
 because when a train crosses a platform it covers a distance equal to the length of platform plus its own length. Therefore, we can determine the speed. But when we combine statements I and III, we need the length of stationary train which is not known.
103. Total population of State F
 $= 22\% \text{ of } 39 \text{ lakhs} + 8\% \text{ of } 32 \text{ lakhs}$
 $= \left(\frac{22 \times 39 + 8 \times 32}{100} \right) \text{ lakhs}$
 $= \left(\frac{858 + 256}{100} \right) \text{ lakhs} = 11.14 \text{ lakhs}$
104. Average population = $\left(\frac{39 + 32}{7} \right) \text{ lakhs}$
 $= 10.14 = 10$
105. Total production of company S
 $= (48.5 + 96.5 + 78.6 + 91.5 + 92.8) \text{ lakhs}$
 $= 407.9 \text{ lakhs}$
106. ? = $(15.01)^2 + \sqrt{81.009 \times 32}$
 $= (15.01)^2 + \sqrt{81 \times 32} = 225 + 9 \times 32$
 $= 225 + 288 = 513.$
107. Required percentage = $\frac{407.9}{78.6} \times 100 = 19.27.$
 $19.269 = 19.27.$
108. Total production of company S
 $= 0.5 \times 1.5 \times 2.5 \times 3.5 \times 4.5 \times 5.5$
 $= 4 \times 2 \times 3 \times 7.5 \times 26 \times 35$
 $= 118.575$



64. From first figure to second figure all the designs rotate through 90° anti-clockwise.
65. From first figure to second figure both the designs are inverted and the smaller designs shift to other side. Again a new design is introduced in the middle.
66. From first figure to second figure the pin head moves two steps in clockwise direction and is reversed while other design moves three and four steps alternately in anti-clockwise direction.
67. In each subsequent figure one new design is introduced at the lower and upper-side respectively in alternate figure. Other designs move in a set pattern.
69. In the subsequent figures the main design rotates through 45° and 90° clockwise alternately. One of the middle designs shifts to other side while two designs of other side move one step each. One of the designs is replaced by a new design after shifting diagonally.
70. In each subsequent figure both designs move in clockwise direction. The lower design rotates through 90° anticlockwise and then it is inverted laterally and the black dot shifts to the other end after two figures. The other design also rotates through 90° anti-clockwise and then it is inverted laterally after two figures and the black dot moves to the other side in each subsequent figure.
72. From first figure to second figure two designs rotate through 90° clockwise and the middle design remains as it is. Again, the two designs are reduced in size.
73. In the second figure mirror image of each design is given.
74. From first figure to second figure the half shaded rectangles become white and the white rectangles become half shaded in a set order.
75. From first figure to second the design rotates through 180° and one and half leaflets are added to the left and right sides of the design.

Quantitative Aptitude

76. Let the marked price be Rs. x

Then, 85% of x = 340

$$\Rightarrow \frac{85x}{100} = 340 \Rightarrow x = \frac{340 \times 100}{85} = \text{Rs. } 400$$

$$\therefore \text{C.P.} = \frac{100}{(100 + \text{Gain}\%)} \times \text{S.P.}$$

$$= \left(\frac{100}{100 + \frac{40}{3}} \right) \times 340 = \text{Rs. } 300$$

\therefore Required gain per cent

$$= \frac{400 - 300}{300} \times 100 = \frac{100}{3} = 33\frac{1}{3}\%$$

77. Required number of ways = Total number of ways – Number of ways of selecting no woman

$$= {}^7C_3 - {}^3C_3 = \frac{7 \times 6 \times 5}{1 \times 2 \times 3} - 1 = 34$$

Computation for questions 81-83:

Number of students who play :

Cricket only = 26% of 50 = 13

Badminton only = 18% of 50 = 9

Cricket and football only = 12% of 50 = 6

Football only = 10% of 50 = 5

Badminton and cricket only = 20% of 50 = 10

Football and badminton only = 8% of 50 = 4

All three games = 6% of 50 = 3

Let sets A, B and C denote the sets of players playing cricket, badminton and football. Then by Venn-diagram,

Therefore, Some graphs are numbers.

Conclusion III is converse of this conclusion.

29. From both the statements,

Magesh has 7 toys

Shailesh has $(7 - 5) = 2$ toys

Tejas has $(7 + 2) = 9$ toys

Anket has $(9 + 3) = 12$ toys

30. From Statement I,

$B > J > S, A, C$

32. From both the statements

D is sister of C.

33. From statement II we can determine the number of girls in the second half of the raw.

For Qns. 34-38:

On the basis of given inputs and various steps of rearrangement we can analyse the rule in the following manner:

	1	2	3	4	5	6	7	8
Input	—	all that glitters is not gold but silver						
Step 1	—	7	8	3	4	5	6	1
Step 2	—	7	8	5	6	3	4	1
Step 3	—	8	5	7	6	3	2	4
Step 4	→	8	5	3	2	7	6	4
Step 5	→	5	3	8	2	7	1	6
Step 6	→	5	3	7	1	8	2	6

Therefore,

Step 7	—	7	5	3	1	8	4	2	6
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39. Only course of action II follows. First course of action does not aim at reducing the problem.
47. Only argument I seems to be strong. It is mentioned that strikes should be banned in essential services only.
48. Revenue appropriated from the citizens is utilised for creating and developing infrastructure by the Government. Therefore, only argument II seems to be strong.
49. Obviously, only argument I is strong.
50. The use of term 'only' in the first argument makes it invalid. Argument II does not answer the question 'How full freedom to press will create problems'. Therefore, argument II is also invalid.



$p \boxed{r} \boxed{q} r p p r \boxed{p} \boxed{r} p q r \boxed{q} r p r p r \boxed{q} \boxed{q} r r p r q p$
 $r q r r q p r q p r$

53. According to question the new sequence would be

$p r 1 q r 2 p 4 3 p q 4 q r 5 r p 6 q q$
 $\boxed{7} p 8 q p 9 q r 10 q p 11 q p 12$

↑ 16th from right



$p r p q \boxed{r} \boxed{p} p r r p q r q \boxed{r} p r p r \boxed{q} \boxed{q} r r p r q p$
 $r q r r q p r q p r$

For Qns. 56-60

- | Member | Sex | Profession | Relationship |
|--------|--------|-------------|------------------------------------|
| L | Female | A/P/J | Wife of M,
Mother of P |
| M | Male | Businessman | Husband of L,
Father of P |
| N | Female | Housewife | Wife of R |
| O | Female | A/P/J | Wife of Q |
| P | Male | A/P/J | Son of L and M |
| Q | Male | Doctor | Father of M and
R, Husband of O |
| R | Male | Advocate | Husband of N |
- A = Architect; P = Pilot; J = Journalist
56. Q is the grandfather of P. The mother of P is L who may be Architect or Journalist.
57. P is Journalist.
58. P, R and N do not have any child.
59. Male members—M P Q R.
60. Married couples—LM, NR and OQ.
61. From first figure to second figure all the designs rotate through 90° anti-clockwise and the first design shifts to the third position, second design to the fourth position, third design to the second position and the fourth design shifts to the first design.
62. From first figure to second figure the designs rotate through 90° anti-clockwise and the smaller design becomes larger and vice-versa.

ANSWERS**TEST OF REASONING**

1. (d) 2. (b) 3. (d) 4. (c) 5. (a) 6. (b) 7. (d) 8. (d) 9. (a) 10. (a)
 11. (a) 12. (c) 13. (b) 14. (a) 15. (d) 16. (a) 17. (c) 18. (e) 19. (a) 20. (e)
 21. (c) 22. (a) 23. (a) 24. (e) 25. (b) 26. (d) 27. (c) 28. (b) 29. (e) 30. (a)
 31. (c) 32. (e) 33. (b) 34. (a) 35. (e) 36. (b) 37. (b) 38. (c) 39. (b) 40. (e)
 41. (d) 42. (a) 43. (e) 44. (d) 45. (a) 46. (b) 47. (a) 48. (b) 49. (a) 50. (d)
 51. (b) 52. (a) 53. (d) 54. (b) 55. (b) 56. (d) 57. (b) 58. (e) 59. (b) 60. (a)
 61. (e) 62. (c) 63. (e) 64. (a) 65. (b) 66. (b) 67. (d) 68. (a) 69. (a) 70. (c)
 71. (e) 72. (c) 73. (a) 74. (b) 75. (b)

QUANTITATIVE APTITUDE

76. (d) 77. (e) 78. (c) 79. (e) 80. (b) 81. (d) 82. (b) 83. (b) 84. (c) 85. (e)
 86. (c) 87. (b) 88. (d) 89. (e) 90. (a) 91. (c) 92. (b) 93. (a) 94. (e) 95. (e)
 96. (e) 97. (c) 98. (b) 99. (d) 100. (a) 101. (d) 102. (e) 103. (a) 104. (c) 105. (e)
 106. (e) 107. (a) 108. (d) 109. (b) 110. (d) 111. (b) 112. (c) 113. (a) 114. (c) 115. (e)
 116. (c) 117. (e) 118. (c) 119. (d) 120. (c) 121. (e) 122. (d) 123. (d) 124. (a) 125. (e)

GENERAL AWARENESS

126. (d) 127. (c) 128. (c) 129. (a) 130. (b) 131. (e) 132. (a) 133. (e) 134. (b) 135. (c)
 136. (d) 137. (b) 138. (b) 139. (b) 140. (d) 141. (b) 142. (c) 143. (e) 144. (b) 145. (b)
 146. (d) 147. (e) 148. (d) 149. (e) 150. (e) 151. (b) 152. (d) 153. (d) 154. (c) 155. (d)
 156. (c) 157. (a) 158. (a) 159. (a) 160. (e) 161. (a) 162. (d) 163. (b) 164. (c) 165. (a)
 166. (b) 167. (e) 168. (c) 169. (a) 170. (c) 171. (b) 172. (e) 173. (a) 174. (a) 175. (a)

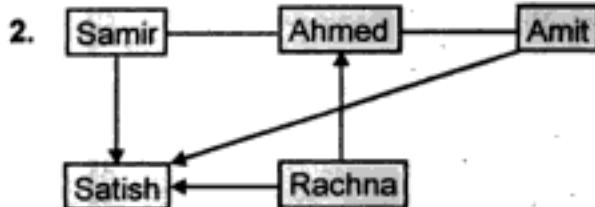
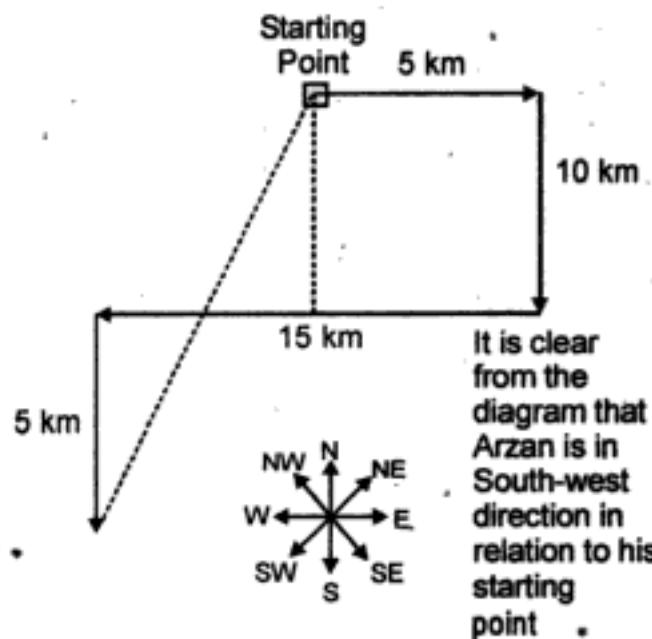
ENGLISH LANGUAGE

176. (d) 177. (b) 178. (a) 179. (c) 180. (d) 181. (c) 182. (b) 183. (d) 184. (e) 185. (e)
 186. (a) 187. (a) 188. (e) 189. (d) 190. (e) 191. (e) 192. (c) 193. (a) 194. (b) 195. (b)
 196. (b) 197. (a) 198. (c) 199. (a) 200. (e) 201. (d) 202. (b) 203. (c) 204. (e) 205. (a)
 206. (d) 207. (c) 208. (b) 209. (d) 210. (a) 211. (e) 212. (b) 213. (c) 214. (b) 215. (c)
 216. (a) 217. (d) 218. (c) 219. (c) 220. (b) 221. (a) 222. (c) 223. (c) 224. (b) 225. (c)

EXPLANATORY ANSWERS

Test of Reasoning

1. The movement of Arzan can be shown



It is clear from the diagram that Satish is in South-west direction from Amit.

3.	1	2	3	4	5	6	7	8
	P	E	A	C	E	F	U	L

Meaningful word : PACE, CAPE

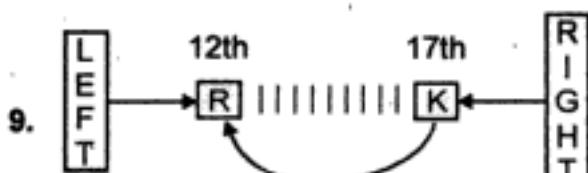
4. Alphabetical order of letters

E H I M N R T U V

2nd to the right of middle letter.

7.	Hit	Bit	(Mit)	(Git)	Rit	Nit
	Sit	(Pit)	Mit	Lit	(Git)	(Tit)
	Fit	Zit	(Pit)	Dit	Vit	(Tit)

Therefore, 'Sit' stands for 'Lit'



Thus, there are 9 students between Rakesh and Kaski.

For Qs. 10-13:

Date	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th
Day	Sun.	Mon.	Tues.	Wednes.	Thurs.	Fri.	Sat.	Sun.	Mon.	Tues.	Wednes.	Thurs.	Fri.	Sat.
Paper	—	Chemistry	—	Biology	English	—	—	—	Physics	Hindi	Maths	—	—	—

13. There was a gap of two days between Chemistry and English.

I + A 1-type conclusion.

Therefore, Some ships are submarines.

14. % @ * = £ + ★ : %

Conclusion III is converse of this conclusion.

4 F 0 L D S 4

Conclusion II is converse of the second premise.

Conditions (i) and (ii) should be applied.

26. Some graphs are letters.

All boats are submarines.



All letters are numbers.

I + A => I-type conclusion.

- V. I want to ask you two questions.
 VI. I offer this, not for the already-achieved or those who think of themselves as hopeless.
 VII. Are you willing to dream of doing great things?

206. Which of the following will be the fourth sentence?

- | | |
|--------|--------|
| a) IV | b) I |
| c) III | d) VII |
| e) II. | |

207. Which of the following will be the first sentence?

- | | |
|---------|--------|
| a) II | b) VII |
| c) V | d) IV |
| e) III. | |

208. Which of the following will be the third sentence?

- | | |
|--------|-------|
| a) III | b) V |
| c) VII | d) IV |
| e) II | |

209. Which of the following will be the last sentence?

- | | |
|---------|--------|
| a) IV | b) III |
| c) II | d) I |
| e) VII. | |

210. Which of the following will be the sixth sentence?

- | | |
|--------|-------|
| a) III | b) IV |
| c) V | d) VI |
| e) VII | |

Directions.(Qns. 211-225): Read the following passage carefully and answer the questions given below it. Certain words/phrases are printed in bold to help you locate them while answering some of the questions.

Management is a set of processes that can keep a complicated system of people and technology running smoothly. The most important aspects of management including planning, budgeting, organising, staffing, controlling, and problem solving. Leadership is a set of processes that creates organisations in the first place or adapts them to significantly changing circumstances. Leadership defines what the future should look like, aligns people with that vision, and

inspires them to make it happen despite the obstacles. The distinction is absolutely crucial for our purposes here. Successful transformation is 70 to 90 per cent leadership and only 10 to 30 per cent management. Yet for historical reasons, many organisations today do not have much leadership. And almost everyone thinks about the problem here as one of managing change.

For most of this century, as we created thousands and thousands of large organisations for the first time in human history, we did not have enough good managers to keep all those bureaucracies functioning. So many companies and universities developed management programmes, and hundreds and thousands of people were encouraged to learn management on the job. And they did. But, people were taught little about leadership. To some degree, management was emphasised because it's easier to teach than leadership. But even more so, management was the main item on the 20th century agenda because that's what was needed. For every entrepreneur or business builder who was a leader, we needed hundreds of managers to run their ever-growing enterprises.

Unfortunately for us today, this emphasis on management has often been institutionalised in corporate cultures that discourage employees from learning how to lead. Ironically, as success is usually the key ingredient in producing this outcome. The syndrome, as I have observed it on many occasions, goes like this: Success creates some degree of market dominance, which, in turn produces much growth. After a while keeping the ever-larger organisation under control becomes the primary challenge. So attention turns inward, and managerial competencies are nurtured. With a strong emphasis on management but not leadership, bureaucracy and an inward focus takes over. But with continued success, the result mostly of market dominance, the problem often goes unaddressed and an unhealthy arrogance begins to evolve. All of these characteristics then make any transformation effort much more difficult.

Arrogant managers can over-evaluate their current performance and competitive position, listen poorly, and learn slowly. Inwardly focussed employees can have difficulty seeing the very forces that present threats and opportunities. Bureaucratic

Directions (Qns. 200-205): Pick out the most effective pair of words from the given pair of words to make the sentence(s) meaningfully complete.

201. Some people have a need to control all aspects of their lives and to eliminate all of chance. These individuals seldom achieve a sense of fulfillment.

- a) habitual possessions
 - b) dramatic factors
 - c) powerful nuances
 - d) compulsive elements
 - e) drastic hindrances

202. Leaders interested in achieving performance need an of the relationship between work-related stress and his performance.

- a) durable understanding
 - b) optimum awareness
 - c) holistic utility
 - d) powerful analysis
 - e) effective application

203. Labour is the most important in the production process. This process some adverse effects on physical and mental health of the workers.

- a) element exhibits
 - b) input develops
 - c) ingredient imposes
 - d) facility evolves
 - e) development injects

204. The objective for which Vayudoot was formed originally are Political, social and economic requirements demand that areas are brought within the communication links.

- a) creditable forbidden
 - b) refutable disturbed
 - c) viable enlarged
 - d) questionable formidable
 - e) laudable inaccessible

205. Vivekananda remained a developed pupil and would often with some fondness, his master's guiding hand that him through life and destiny.

- a) recount steered
 - b) ponder engaged
 - c) replenish advised
 - d) mentioned proved
 - e) narrate forwarded

Directions (Qns. 206- 210): Rearrange the following seven sentences I, II, III, IV, V, VI and VII in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- I. Then, fulfil that dream with the help we offer.
 - II. Are you willing to set goals that will move you towards making that dream a reality?
 - III. But, for those who are willing to dream big.
 - IV. This book seeks to challenge people who are willing to dream.

18. "Faith in the democratic process triumphs over fear in Jammu and Kashmir" was the headline in a section of press recently. Which of the following statements most nearly conveys the underlying meaning of the headline in the above heading?
- Fear that Gvt may postpone the elections at the last moment
 - Fear that no political party will get clear majority
 - Fear that terrorists may create a havoc so that people do not go to vote
19. As per a survey conducted by a group of media, which of the following issues should be the top priority of the new Govt in Gujarat? It has to
- ensure that the State is adequately represented in all-India Services and also in the Union Cabinet
 - ensure that the property of the temple damaged in a terrorist attack be restored as early as possible
 - ensure that more and more industrial units be set up in the State so that unemployment problem gets solved
 - communal harmony be restored as early as possible
 - all those Govt officials who were found involved in corruption be punished and/or removed
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 - Some violent agitations against the event took place in Nigeria where the earlier venue was located
 - The contestants were not in favour of the venue as it is an underdeveloped country
 - The agency which was to organise the event in Abuja declared itself insolvent
 - None of these
21. As discussed in the UN Meeting on Environment held in Delhi in November, 2002, it is now a well-known fact that the global climate pattern is changing very fast. Which of the following cannot be a possible outcome of this change in global climate?
- Temperatures may go up to an alarming level
 - Electoral results at the last moment
 - Fear that Gvt may postpone the meeting up the most appropriate alternative (pick up the word fear in the above headline)
 - None of these
22. As discussed in the UN Meeting on Environment held in Abuja in November, 2002, it is now a well-known fact that the global climate pattern is changing very fast. Which of the following cannot be a possible outcome of this change in global climate?
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23. He has taken over the Chairman of the Sangit Natak Akademi recently.
- He is now a nominated member of the Rajya Sabha
 - He is the recipient of the prestigious Dada Sahab Phalke Award-2001 announced
 - He has taken over the Chairman of the recently
 - None of these
24. He is our new Information and Broadcasting Minister
- Shahid Shabana
 - Rajya Sabha
 - He is now a nominated member of the Sangit Natak Akademi
 - None of these
25. Why was Sri Yash Chandra recently in the news?
- To provide protection to villages from wild elephants
 - To stop merciless killings of forest animals by the traders of animal skin and bones
 - To provide protection to villages from wild elephants
 - To search outfits of some terrorists who are reported to have their camps in those thick forests
 - None of these
26. A joint group of police personnel from Karnataka and Tamil Nadu has been set up to handle which of the following issues/problems?
- To capture notorious forest brigands
 - To stop merciless killings of forest animals
 - To provide protection to villages from wild elephants
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2. Sea level may raise by several metres swallowing island-countries
 3) There may be sudden increase in human population
 4) The fertile land may get converted into vast wetlands and devastating floods may occur in other regions.
 5) None of these
22. As per Protocol of the UN Framework Convention on Climate Change, the developed countries were required to cut their greenhouse gas emission by 5 per cent from the level as it was in the year 1990. 2) 2000
 3) 1998
 4) 1999
 5) 1995
 Who amongst the following is the Non-Violence given by the UNO?
 1) Sardar Patel
 2) Sri Murari Bapu
 3) Sri Ravai Shankar
 4) Sri Asaramji Bapu
 5) Mata Amritanandamayi
 Late Meherji Mehta, who died recently, was
 1) the founder of the famous Bombay Symphony Orchestra
 2) a cinematographer famous for wildlife films
 3) a famous social worker working for the victims of Bhopal gas tragedy
 4) a famous cricket player who led Indian cricket team in 1950-52
 5) None of these
23. Who amongst the following is the recipient of the Gandhi-King Award for
 1) receiving the award in the year
 2) 2000
 3) 1998
 4) 1999
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25. Who amongst the following is the author of the book Letters from India?
 1) Rob Young
 2) Nani Pakhwala
 3) Dominique Hanseens
 4) Cleopatra Hanseens
 5) Catherine Young
 26. Turkey, a West Asian nation, is very much desirous to become the member of the European Union (EU). Why does it feel that it belongs to Europe? (Choose the most appropriate alternative among the given ones.)
 1) Only B
 2) Only A
 3) Only C
 4) Only A & B
 5) Only B & C
 If Turkey, which is a Muslim country is given the membership, other such countries will also get a chance to be a member of the same
 2) The European Union wishes to increase its geographical boundaries so that it can speed up. Turkey has agreed to help EU in achieving this goal
 3) Turkey feels that western model of development suits it and hence it should be given the membership of the European Union in the near future
 4) Turkey, a very poor economy, wishes to adopt Euro money as its currency so that it may get a good support from other members of EU and come out of recession quickly
 5) None of these
 After the merger with ANZ Grindlays Bank, the Standard Chartered bank has become the
 1) largest bank of India
 2) 2nd largest bank of India
 3) largest foreign bank in India
 4) only foreign bank of India
 5) most profitable bank having almost all NPsAs
 27. A committee headed by Shri NK Singh, member-secretary of Planning Commission, has suggested a hike in foreign equity up to 49% in insurance companies. This suggestion has been accepted instantly by the Indian population benefit by this decision of the Govt?
 A) The sector will grow fast and more and more people will get employment opportunities
 B) The life-span will increase as more and more people will get better healthcare services
 C) Tourism sector will grow fast as more foreign investors would like to visit India for investment negotiations
 D) The tourism sector will grow fast as more foreign investors would like to visit India for investment negotiations
 E) Only A & B
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 2) Only A
 3) Only C
 4) Only A & B
 5) Only B & C

184. Auspicious means showing signs of future success or favourable. Its antonym is 'despicable', which means to consider somebody or something as worthless.
185. Propel means drive, move or push something forward. Its synonym is 'induce', which means persuade or influence to do something.
186. 'build' should be replaced with 'built'.
187. 'had' should be replaced with 'has'.
188. The sentence is correct.
189. 'is' should be replaced with 'was'.

190. The sentence is correct.

Qns. 206-210:

The meaningful paragraph should be : "I want to ask you two questions. Are you willing to dream of doing great things ? Are you willing to set goal? That will move you towards making that dream a reality? This book seeks to challenge people who are willing to dream, offer this, not for the already-achieved or those who think of themselves as hopeless. But, for those who are willing to dream big. Then, fulfil that dream, with the help we offer."



BANK PROBATIONARY OFFICERS' EXAM.

(Canara Bank)

Original Question Paper – Held in February 2003

GENERAL AWARENESS

1. Which of the following is not true about the Indian economy as reflected in the mid-year economic review published recently?
 - 1) The economy is expected to grow by 5-5.5 per cent in 2002-03
 - 2) Fiscal deficit is likely to come down substantially as revenue collection is good
 - 3) Revenue and capital expenditure have increased a little
 - 4) Foreign exchange reserves are more than satisfactory
 - 5) Food-grain stock is approximately 51 million tonnes
2. Shri Sunil Mittal, who was adjudged the 'Businessman of the Year 2002' by the *Business India* magazine, is the Chairman and Group Managing Director of
 - 1) Max India
 - 2) Citibank (India & Nepal region)
 - 3) DSP Merrill Lynch
 - 4) Bharti Enterprises
 - 5) None of these
3. The Union Govt has placed a Bill in the Parliament which will attempt to curb criminalisation of politics. Once the Bill is cleared, it will
 - 1) debar people convicted of heinous crimes from contesting elections during their term in jail and also for six years after their release
 - 2) not allow the people convicted of heinous crime to contest elections throughout their life
 - 3) make it mandatory that every contestant of the Lok Sabha election should give an undertaking that he/she will not involve himself/herself in any activity against any community or religion
- 4) be mandatory for all contestants of any state assembly/Lok Sabha election to obtain a clearance from police authorities stating that no criminal proceedings are pending against them
- 5) None of these
4. The Indian Consulate Office in which of the following countries reopened after a gap of 23 years?
 - 1) Uganda
 - 2) Ethiopia
 - 3) Myanmar
 - 4) Afghanistan
 - 5) None of these
5. The recent amendment of Securities and Exchange Board of India Bill envisages that
 - 1) market offenders get a punishment
 - 2) the SEBI offices be opened in each and every town where a stock exchange is functioning
 - 3) banks also come under the jurisdiction of SEBI
 - 4) SEBI will now be a Commission headed by an officer not less than the rank of a Chief Secretary of a State
 - 5) financing to the film industry be also done as per guidelines issued by the SEBI
6. As per recent decision of the Supreme Court of India, all cases related to Babri Masjid issue will be tried by the
 - 1) Allahabad High Court
 - 2) Faizabad Court
 - 3) Lucknow Bench of Allahabad High Court
 - 4) Special Court at Rai Bareli
 - 5) Supreme Court itself
7. The Indian Institute of Carpet Technology has started functioning in which of the following places?
 - 1) NOIDA in UP
 - 2) Srinagar in J&K

- 3) Durg in Chhattisgarh
4) Jalandhar in Punjab
5) Bhadohi in UP
8. SEBI recently directed which of the following companies to refrain from acquiring additional shares of Larsen & Toubro (L&T)?
1) Tata Finance Co Ltd.
2) Grasim Industries Ltd.
3) Ambuja Cement Ltd.
4) JK Cement Ltd.
5) None of these
9. The Union Finance Ministry of India has asked which of the following to provide a special dividend of Rs. 6,000 crore to bridge its revenue gaps for the current fiscal?
1) Air India & Indian Airlines
2) Public Sector Oil Companies
3) State Bank of India and Bank of India
4) Telecom PSUs
5) None of these
10. A committee under the chairmanship of Sri Naresh Chandra was set up to submit a report on the
1) disinvestment of Centaur Hotel (Mumbai Airport)
2) role of auditors and the task they should perform
3) reopening of disinvestment of oil PSUs
4) reforms in direct taxation system
5) None of these
11. Which of the following is the major consideration owing to which Govt is planning to lift restriction on Coastal Regulation Zone (CRZ)?
1) To allow small fishermen to go for fishing as they may not able to go into deep sea
2) To allow mining companies to exploit valuable mineral deposits
3) To allow construction of water parks and water game resorts to boost up tourism sector
4) To allow universities and other academic institutes to carry on research work which was not possible earlier
5) None of these
12. Which of the following is true about the adoption of Value Added Tax (VAT) by the State Govts?
A) State Govts have been asked to adopt VAT system from June 2003
B) Some State Govts are not in favour of VAT unless 100% compensation is given
C) VAT once adopted will phase out the Central Sales Tax
1) Only A 2) Only B
3) Only C 4) Only B & C
5) Only A & C
13. 'The High Performance Computing Asia Conference 2002' was recently organised for the first time in India in
1) Hyderabad 2) Mumbai
3) Kolkata 4) Bangalore
5) None of these
14. The general feeling of the economic world is that the global economy is heading for recession. What measures should be taken by the various developed and/or developing countries to protect themselves from this global phenomenon? (Pick up the most appropriate alternative amongst the given ones.)
A) The developed countries should immediately remove trade barriers which come in the way of their trade with poor developing countries
B) Developing countries must get more assistance from developed ones in the shape of loans/investments
C) Mergers and takeovers of the trade organisations should be stopped immediately as a lot of unproductive assets are also transferred in such mergers/take-overs and turn themselves into huge liabilities. Instead, assistance should be given to each one to perform or get banished
1) Only A 2) Only B
3) Only C 4) Only A & B
5) None of these
15. 13th December was observed as the
1) birth centenary of Dr. B.R. Ambedkar

- 2) 50th death anniversary of Dr. B.R. Ambedkar
 3) Anti-terrorism Day
 4) 1st anniversary of terrorist attack on the Parliament House
 5) Save Mother Earth Day
16. A joint group of police personnel from Karnataka and Tamil Nadu has been set up to handle which of the following issues/problems?
- To capture notorious forest brigand Veerappan
 - To stop merciless killings of forest animals by the traders of animal skin and bones
 - To provide protection to villages from wild elephants
 - To search outfits of some terrorists who are reported to have their camps in those thick forests
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- Fear that no political party will get clear majority
 - Fear that Govt may postpone the elections at the last moment
 - Fear that terrorists may create a havoc so that people do not go to vote
- 4) Fear that the State may not get enough financial aid from Union Govt to restore its glory of old days
 5) Fear that somebody from some other State may be sent as the Chief Minister of the State
19. As per a survey conducted by a group of media, which of the following issues should be the top priority of the new Govt in Gujarat? It has to
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- 1) If Turkey, which is a Muslim country is given the membership, other such countries will also get a chance to be a member of the same
2) The European Union wishes to increase its geographic boundaries so that it can stop the influence of NATO which is speeding up. Turkey has agreed to help EU in achieving this goal
3) Turkey feels that western model of development suits it and hence it should be given the membership of the European Union in the near future
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27. After the merger with ANZ Grindlays Bank, the Standard Chartered bank has become the
- 1) largest bank of India
2) 2nd largest bank of India
3) largest foreign bank in India
4) only foreign bank of India
5) most profitable bank having almost nil NPAs
28. A committee headed by Sri NK Singh, member-secretary of Planning Commission, has suggested a hike in foreign equity up to 49% in insurance sector. How will the Indian population be benefitted instantly by this decision of the Govt.?
- A) The sector will grow fast and more and more people will get employment opportunities
B) The life-span will increase as more and more people will get better healthcare services
C) Tourism sector will grow fast as more foreign investors would like to visit India for investment negotiations
- 1) Only B 2) Only A
3) Only C 4) Only A & B
5) Only B & C

- 29. Which of the following is/are not true about the Cotton price scheme of the Maharashtra Govt which was recently in news?**
- The scheme, which was suspended earlier, has been revived as the number of cotton farmers committing suicide has increased
 - The World Bank and Union Govt pressurised the State Govt to revive the scheme
 - The State Govt has decided to pay Rs. 2,300 per quintal to the farmers, which is Rs. 400 less than the support price announced by the Union Govt.
- Only A
 - Only B
 - Only A & B
 - Only B & C
 - Only C
- 30. Which of the following will be the effect of the 'Protection from Domestic Violence Bill-2002' pending with the Parliament, once it is cleared for implementation?**
- Separation or divorce will become very easy as simply an FIR of consistent violence for more than a year will be sufficient to get divorce or separation
 - All those women who are forced to live in bigamous or consanguineous relationship will be free to come out of it or will get the status of a legally married woman irrespective of their present status
 - The convict may face a fine or/and one year's imprisonment
- Only A
 - Only B
 - Only C
 - Only A & B
 - Only B & C
- 31. Which of the following Indian oil companies has bid for construction and also operation thereafter of an oil pipeline between Iraq and Jordan?**
- Hindustan Petroleum Corporation Ltd (HPCL)
 - Indian Oil Corporation Ltd. (IOC)
 - Bharat Petroleum Corporation Ltd (BPCL)
 - Reliance Petrochemicals Pvt Ltd
 - Oil and Natural Gas Commission (ONGC)
- 32. India has decided to export about 2700 tonnes wheat to which of the following countries recently despite a drought in the country?**
- Indonesia
 - Myanmar
 - Nepal
 - Ethiopia
 - None of these
- 33. Which of the following organisations has imposed a ban on stock brokers who act as insurance brokers?**
- RBI
 - SEBI
 - CII
 - FICCI
 - IRDA
- 34. Some big banks and financial companies are planning to launch 'Vulture Funds' in India. What would be the effect of this launch on the financial market? (Choose the most appropriate alternative amongst the given ones.)**
- These vulture funds will purchase the assets of sick companies and sell them for a profit
 - The number of NPA will come down substantially as borrowing will not be so easy
 - Some provisions of the Securitisation Ordinance will have to be scrapped as takeovers etc. of sick units is not the job of banks
 - Small investors will have another good opportunity to invest in such vulture funds as the returns by them will always be very attractive
 - None of these
- 35. A foreign bank willing to do business in India can open maximum how many branches in the country?**
- 10
 - 12
 - 14
 - 18
 - None of these
- 36. To whom were the Stock Brokers paid a Turn-over fee on 30th November, 2002?**
- National Stock Exchange
 - Insurance Regulatory & Development Authority
 - Registrar of Companies
 - Reserve Bank of India
 - Securities and Exchange Board of India

37. The 32nd National Games took place at which of the following cities in December 2002?
- New Delhi
 - Chennai
 - Jaipur
 - Hyderabad
 - Chandigarh
38. If the Call Centres wish their women employees to work till late night or in night shifts after 8 pm, the provision of which of the following acts would be required to be amended?
- Shops and Establishment Act
 - Companies Act
 - Hindu Marriage Act
 - Banking Regulation Act
 - None of these
39. Who amongst the following is the recipient of the Nobel Peace Prize announced recently?
- Jimmy Carter
 - George Bush
 - Nelson Mandela
 - Prince Charles
 - None of these
40. It is generally seen that Govt insists on having at least 26% stake in any PSU. What is the importance of this figure 26% in the financial market?
- Whenever some special resolution is required to be passed, 75 per cent majority is needed. Any one having 26% stake can get this decisive opportunity as per provision of the Company Law
 - Govt normally wishes to have the maximum number of stakeholders to be four. Hence, it is in the interest of employees that Govt. stake remains a little higher than others
 - Only those partners or stake holders can sign loan documents etc. whose stakes are more than $\frac{1}{4}$
 - It is just a practice and does not have any rationale
 - Govt cannot take over or float any company unless more than $\frac{1}{4}$ capital is invested by it in the venture. 26% is the amount Govt. prefers, though there is no hard and fast rule for the same
41. Which of the following is the target for the 10th Five-Year Plan approved recently for Taxes/GDP ratio in 2006-07?
- 8%
 - 8.3%
 - 9%
 - 9.6%
 - 10.3%
42. Choose the alternative which completes the following statements correctly in reference to global economic scenario. The capacities of the ports in India have gone up. The turnover of cargo ships is
- still below international standards
 - at par with international standards
 - the same as it was ten years back
 - not as per the capacity of the available facilities, though at par with international standards
 - very much irregular and unpredictable
43. Some people feel that the Higher Education System in India needs a radical surgery. Which of the following statements of fact support(s) this?
- India has nearly 12000 institutes imparting higher education, large enough to cater the need of the country
 - With close to nine million students, India now produces one of the largest number of graduates in the world every year
 - A large number of people are engaged in jobs not at all compatible with their educational qualifications
- Only A
 - Only B
 - Only C
 - All the three
 - None of these
44. As reported in a section of press, India has good reserves of foreign exchange. Which of the following may get least affected by this situation?
- Imports
 - Balance of Payments
 - Exports
 - Market situation in the events of the outbreak of war
 - All of these
45. Recently, Reserve Bank of India on International level has advocated that developing countries should get more

- rights of vote in International economic groups. Which the following statements is/are true regarding this?**
- As a group, developing countries are improving fast
 - Developed countries are less in number
 - Regarding trade and output, developing countries are more competitive
- Only A & B
 - Only A & C
 - Only B
 - Only B & C
 - A, B & C
- 46. Which of the following statements is/are not true regarding Ombudsman plan recently announced by the Reserve Bank of India?**
- Now Rural Regional Banks and Primary Co-operative Banks are out of this area
 - Individual cases up to ten lakhs can be considered now
 - Banks may be able to appeal after the re-consideration of Ombudsman
- Only A & C
 - Only B
 - Only C
 - Only A & B
 - Only A
- 47. Recently, Prime Minister Mr. Atal Behari Vajpayee announced in the Lok Sabha that all rivers of India will be inter-linked and this work will be done at a war level. Which of the following will be benefitted the most from this project?**
- It will be a solution to frequent droughts
 - Employment will be created by this project
- C) Irrigation may be possible in many million hectares of non-irrigated area**
- D) Oil can be explored from this project**
- Only A & B
 - Only B & C
 - Only A & D
 - A, B & C
 - Only A
- 48. According to a recently-released press report, how much amount meant for rural development is lying unused? (in Rs. crore)**
- 5600
 - 6400
 - 7400
 - 8200
 - 8800
- 49. Which of the following statements is/are true regarding the use of chlorofluoro carbon (CFC)?**
- Under the Montreal Protocol the use of CFC has been banned because it harms ozone layer
 - India has not accepted the Montreal Protocol
 - India has decided to completely ban the use of chlorofluorocarbon till 2010
 - In refrigerators and air-conditioners in India, CFSs are used
- Only A & B
 - Only A, B & C
 - Only A, C & D
 - Only A & C
 - All are correct
- 50. In which of the following cities was the Fifth Asian and Pacific Population Conference held in December 2002?**
- Cairo
 - Paris
 - Bangkok
 - New Delhi
 - Islamabad

ENGLISH LANGUAGE

Directions (Qns. 51-60): Pick out the most effective pair of words from the given pair of words to make the sentence/sentences meaningfully complete.

- 51. The teacher must _____ the unique style of a learner in order to _____ it to the desired knowledge.**
- advocate direct
 - perpetuate develop

- appreciate focus
- absorb maintain
- discover harness

- 52. Not all countries benefit _____ from liberalisation. The benefits tend to _____ first to the advantaged and to those with the right education to be able to benefit from the opportunities presented.**
- equally generate
 - richly downgrade

- 3) suitably ascribe
 4) uniformly percolate
 5) judiciously facilitate
- 53.** He has _____ sense of words. Therefore, the sentence he constructs are always _____ with rich meaning.
 1) profound pregnant
 2) distinguished loaded
 3) terrific tempted
 4) meaningful full
 5) outstanding consistent
- 54.** He was an _____ musician, had been awarded the George Medal during the second world war and _____ with the title of Rai Bahadur.
 1) outstanding popularised
 2) underestimated declared
 3) accomplished honoured
 4) impressive assigned
 5) obdurate proclaimed
- 55.** Whether it be shallow or not, commitment is the _____, the bedrock of any _____ loving relationship.
 1) expression perfunctory
 2) foundation genuinely
 3) manifestation deep
 4) key alarmingly
 5) basis absorbing
- 56.** Many people take spirituality very seriously and _____ about those who don't, worrying about them and _____ them to believe.
 1) think criticising
 2) pride appraising
 3) rationalise enabling
 4) wonder prodding
 5) ponder venturing
- 57.** Unless new reserves are found soon, the world's supply of coal is being _____ in such a way that with demand continuing to grow at present rates, reserves will be _____ by the year 2050.
 1) consumed completed
 2) depleted exhausted
 3) reduced argument
 4) burnt destroyed
 5) utilized perished
- 58.** If you are _____ you tend to respond to stressful situations in a calm, secure, steady and _____ way.
 1) resilient rational
 2) obdurate manageable
 3) propitious stable
 4) delectable flexible
 5) supportive positive
- 59.** Management can be defined as the process of _____ organizational goals by working with and through human and non-human resources to _____ improve value added to the world.
 1) getting deliberately
 2) managing purposefully
 3) targeting critically
 4) realising dialectically
 5) reaching continuously
- 60.** If you are an introvert, you _____ to prefer working alone and, if possible, will _____ towards projects where you can work by yourself or with as few people as possible.
 1) like depart
 2) advocate move
 3) tend gravitate
 4) express attract
 5) feel follow

Directions (Qns. 61-73): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word that fits the blank.

Actually, everyday we are engaged in this business of 'reading' people. We do it ... (61) ... We want to figure others out. So we ... (62) ... make guesses about what others think, value, want and feel and we do so based on our ... (63) ... beliefs and understandings about human nature. We do so because if we can figure out ... (64) ... and intentions of others the possibility of them ... (65) ... or hurting us ... (66) ... and this will help us to ... (67) ... a lot of unnecessary pain and trouble. We also make second-guesses about what they will do in future, how they will ... (68) ... if we make this or that response. We do all this second-guessing based upon our ... (69) ... of what we

believe about the person's inner nature ... (70) ... his or her roles and manners. We mind-read their ... (71) ... motives.

Also, everyday we misguess and misread. Why? Because of the complexity, ... (72) ..., and multidimensional functioning of people. After all, how well do you 'read' your own thoughts, aims, values, motives, beliefs, etc? How well do you know your own structuring process — your own thinking and ... (73) ... styles?

- | | | |
|-----|---|----------------------------------|
| 61. | 1) vehemently
3) actually
5) virtually | 2) practically
4) incessantly |
| 62. | 1) ably
3) partly
5) positively | 2) constantly
4) largely |
| 63. | 1) futuristic
3) reactive
5) assumptive | 2) proactive
4) decorative |
| 64. | 1) manifestations
3) motives
5) prospects | 2) expressions
4) hopes |
| 65. | 1) tricking
3) furthering
5) criticising | 2) blaming
4) alarming |
| 66. | 1) lessens
3) questions
5) laments | 2) happens
4) deepens |
| 67. | 1) approach
3) avoid
5) prepare | 2) direct
4) implement |
| 68. | 1) solve
3) plan
5) respond | 2) apply
4) approach |
| 69. | 1) projection
3) situation
5) attribution | 2) exhibition
4) prediction |
| 70. | 1) organizing
3) appreciating
5) outside | 2) underneath
4) proposing |
| 71. | 1) cunning
3) deeper
5) proposed | 2) visible
4) obvious |

- | | | |
|-----|---|---------------------------------|
| 72. | 1) abnormality
3) focus
5) contribution | 2) angularity
4) layeredness |
| 73. | 1) proposing
3) upbringing
5) emoting | 2) developing
4) lamenting |

Directions (Qns. 74-80): Read each sentence(s) to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (5), i.e., 'No error'. (Ignore the errors of punctuation, if any.)

- | | |
|-----|--|
| 74. | The judge asked the man (1)/ if the bag he had lost (2)/ contain five thousand rupees. (3)/ The man replied that it did. (4)/ No error (5). |
| 75. | I trust you will (1)/ show forbearance to me (2)/ a few minutes more (3)/ so that I can finish this work (4)/ No error (5). |
| 76. | The ground outside the village, (1) abounding with frogs and snakes, (2)/ the enemies of mankind, (3)/ is soft and marshy. (4)/ No error (5). |
| 77. | We are all short-sighted (1)/ and very often see but one side of the matter. (2)/ Our views are not extended (3)/ to all that has a connection with it. (4)/ No error (5). |
| 78. | Just laws are no restraint on (1)/ the freedom of the good, (2)/ for the good man desires nothing (3)/ which a just law interfere with. (4)/ No error (5). |
| 79. | Had he done (1)/ his home work well (2)/ he would not have (3)/ suffered this embarrassment. (4)/ No error (5). |
| 80. | He was angry with me (1) / because he thought my (2)/ remark was (3)/ aimed before him. (4)/ No error (5). |

Directions (Qns. 81-90): In each of the following questions four words are given of which two words are most nearly the same or opposite in meaning. Find the two words which are most nearly the same or opposite in meaning and indicate the number of the correct letter combination, by darkening the appropriate oval in your answersheet.

81. A) Prolixity B) Brevity
 C) Agreement D) Proposition
 1) A - B 2) B - C
 3) C - D 4) A - C
 5) A - D

82. A) Suffuse B) Deplete
 C) Fight D) Delay
 1) B - C 2) C - D
 3) A - C 4) A - D
 5) A - B

83. A) Forensic B) Delectable
 C) Leaflike D) Charming
 1) A - C 2) B - D
 3) A - D 4) B - C
 5) A - B

84. A) Benevolent B) Alarming
 C) Charitable D) Stupendous
 1) A - B 2) B - C
 3) C - D 4) A - C
 5) B - D

85. A) Convenient B) Intolerant
 C) Enduring D) Protestant
 1) A - B 2) A - C
 3) B - C 4) B - D
 5) C - D

86. A) Eject B) Spread
 C) Mark D) Spout
 1) B - D 2) A - C
 3) B - C 4) A - B
 5) A - D

87. A) Push B) Thrive
 C) Flourish D) Arrange
 1) A - C 2) A - D
 3) C - D 4) B - C
 5) B - D

88. A) Refuse B) Discourage
 C) Lurk D) Hide
 1) A - C 2) C - D
 3) B - D 4) B - C
 5) A - D

89. A) Delirious B) Confluent
 C) Curt D) Gracious
 1) A - B 2) B - C

- 3) C - D 4) B - D
 5) A - D

90. A) Punishment B) Divergence
 C) Confluence D) Confidence
 1) B - C 2) B - D
 3) C - D 4) A - B
 5) A - C

Directions (Qns. 91-100): Read the following passage carefully and answer the questions given below it. Certain words in the passage are printed in bold to help you locate them easily while answering some of the questions.

The University Grants Commission's directive to college and university lecturers to spend a minimum of 22 hours a week in direct teaching is the product of budgetary cutbacks rather than pedagogic wisdom. It may seem odd, at first blush, that teachers should protest about teaching a mere 22 hours. However, if one considers the amount of time academics require to prepare lectures of good quality as well as the time they need to spend doing research, it is clear that most conscientious teachers work more than 40 hours a week. In university system around the world lecturers rarely spend more than 12 to 15 hours in direct teaching activities a week. The average college lecturer in India does not have any office space. If computers are available, internet connectivity is unlikely. Libraries are poorly stocked. Now the UGC says universities must implement a complete freeze on all permanent recruitment, abolish all posts which have been vacant for more than a year, and cut staff strength by 10 per cent. And it is in order to ensure that these cutbacks do not affect the quantum of teaching that existing lecturers are being asked to work longer. Obviously, the quality of teaching and academic work in general will decline. While it is true that some college teachers do not take their classes regularly, the UGC and the institutions concerned must find a proper way to hold them accountable. An absentee teacher will continue to play truant even if the number of hours he is required to teach goes up.

All of us are well aware of the unsound state that the Indian higher education system is in today. Thanks to years of sustained financial neglect,

most Indian universities and colleges do no research worth the name. Even as the number of students entering colleges has increased dramatically, public investment in higher education has actually declined in relative terms. Between 1985 and 1997, when public expenditure on higher education as percentage of outlays on all levels of education grew by more than 60 per cent in Malaysia and 20 per cent in Thailand, India showed a decline of more than 10 per cent. Throughout the world, the number of teachers in higher education per million population grew by more than 10 per cent in the same period; in India it fell by one per cent. Instead of transferring the burden of government apathy on to the backs of the teachers, the UGC should insist that the need of the country's university system be adequately catered to.

91. Why does the UGC want to increase the direct teaching hours of university teachers?

- 1) UGC feels that the duration of contact between the teacher and the taught should be more.
- 2) UGC wants teachers to spend more time in their departments.
- 3) UGC wants teachers to devote some time to improve university administration
- 4) UGC does not have money to appoint additional teachers.
- 5) None of these

92. Which of the following is the reason for the sorry state of affairs of the Indian Universities as mentioned in the passage?

- 1) The poor quality of teachers
- 2) Involvement of teachers in extra-curricular activities
- 3) Politics within and outside the departments
- 4) Heavy burden of teaching hours on the teachers
- 5) Not getting enough financial assistance

93. Which of the following statements is/are TRUE in the context of the passage?

- A) Most colleges do not carry out research worth the name.
- B) UGC wants lecturers to spend minimum 22 hours a week in direct teaching.

C) Indian higher education system is in unsound state.

- 1) Only (A) and (C)
- 2) All (A), (B) and (C)
- 3) Only (C)
- 4) Only (B)
- 5) Only (B) and (C)

94. Besides direct teaching, University teachers spend considerable time in/on

- 1) administrative activities such as admissions
- 2) supervising examinations and correction of answer papers
- 3) carrying out research in the area of their interest
- 4) maintaining research equipment and libraries
- 5) developing liaison with the user organisations

95. Which of the following statements is NOT TRUE in the context of the passage?

- 1) UGC wants teachers to spend minimum 40 hours in a week in teaching.
- 2) Some college teachers do not engage their classes regularly.
- 3) The average college teacher in India does not have any office space.
- 4) UGC wants universities to abolish all posts which have been vacant for more than a year.
- 5) All are true

96. Between 1985 and 1997, the number of teachers in higher education per million population, in India

- 1) increased by 60%
- 2) increased by 20%
- 3) decreased by 22%
- 4) decreased by 10%
- 5) decreased by 1%

97. Which of the following statements is NOT TRUE in the context of the passage?

- 1) Indian universities are financially neglected.
- 2) All over the world, the university lecturers hardly spend more than 12 to 15 hours a week in direct teaching
- 3) Indian Universities are being asked to reduce staff strength by 10%
- 4) Public investment in higher education has increased in India.

- 184. Statement:** World Health Organisation has decided to double its assistance to various countries to increase the per capita expenditure on health in India and bring it on par with other countries.

Assumptions:

 - I. The enhanced assistance may subsistentially increase the per capita expenditure on health in India and bring it on par with other countries.
 - II. The Government funding is less than adequate to provide basic medical facilities in India.
 - III. Galaxy Housing Society has requested all its members to segregate the biodegradable garbage and put them in different containers.
 - IV. Other housing societies may follow the same practice as this will help conserve environment equilibrium.
 - V. The members of Galaxy Housing Society may respond positively to the request made by the managing committee.

185. Statement: The managing committee of Galaxy Housing Society has requested all its members to segregate the biodegradable garbage and put them in different containers.

Assumptions:

 - I. Other housing societies may follow the same practice as this will help conserve environment equilibrium.
 - II. The managing committee of Galaxy Housing Society has requested all its members to segregate the biodegradable garbage and put them in different containers.
 - III. Galaxy Housing Society has requested all its members to segregate the biodegradable garbage and put them in different containers.
 - IV. You have to take the given statements even if they seem to be at variance with commonly known facts. Read all the conclusions logically following from the given statements and then decide which of the given conclusions are logically followed from facts. Read all the conclusions and then decide which of the given conclusions are logically followed from the given statements even if they seem to be at variance with commonly known facts.

186. Statements: a. Some boxes are trees.
b. Some trees are horses.
c. All horses are fruits.
I. Some fruits are boxes.
II. Some fruits are trees.
III. Some horses are boxes.
IV. No fruits are boxes.

Conclusions: I. Some fruits are boxes.
II. Some fruits are trees.
III. Some horses are boxes.
IV. No fruits are boxes.

- | | |
|---|---|
| 1. The customers may prefer to take | Assumptions: |
| 183. Statement: The "X" Housing Finance Company as they can save a lot of their time and money spent in searching a suitable home | suitable home. |
| 1. The Government does not have sufficient | time and money spent in searching a suitable home |
| 182. Statement: The Government has decided to | at no extra cost for those who avail housing |
| 1. People may still continue to keep money | loan from it. |
| 181. Statement: The Union Government has | Company as they can save a lot of their time |
| 1. People may still savings schemes and also pay | and money as they can save a lot of their time |
| 180. Statement: The Government has decided to | at no extra cost for those who avail housing |
| 1. The total tax collection may increase | Company as they can save a lot of their time |
| 181. Statement: The Union Government has | and money as they can save a lot of their time |
| 1. People may still continue to keep money | Company as they can save a lot of their time |
| 182. Statement: The Government has decided to | and money as they can save a lot of their time |
| 1. The Government does not have sufficient | Company as they can save a lot of their time |
| 183. Statement: The "X" Housing Finance | Company as they can save a lot of their time |
| 1. The customers may prefer to take | Company as they can save a lot of their time |
| 184. Statement: The Government has decided to | Company as they can save a lot of their time |
| 1. The total tax collection may increase | Company as they can save a lot of their time |
| 185. Statement: The Government has decided to | Company as they can save a lot of their time |
| 1. The customers may prefer to take | Company as they can save a lot of their time |
| 186. Statement: The Government has decided to | Company as they can save a lot of their time |
| 1. The customers may prefer to take | Company as they can save a lot of their time |

- Now in each of the following questions assume that the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true? Give answer.
- 177. Should all the non-governmental employees in the public sector be compulsorily reemployed from service?**
- I. No, this will give an unjust handle to the management.
 II. Yes, this will lead to more violence as culprits may even kill the rape victims.
- 178. Should there be compulsory medical examination of both the man and the woman before they marry each other?**
- I. No, this is an intrusion into the privacy of an individual and hence cannot be tolerated.
 II. Yes, this will substantially reduce the risk of giving birth to children with serious ailments.
- 179. Should all the drugs patented and manufactured in western countries be first licensed for sale to general public in India?**
- I. Yes, many drugs require different doses and duration for Indian population and hence it is necessary.
 II. No, this is just not feasible and hence cannot be implemented.
- 180. Should all the foreign banks immediately be asked to close down their operations in India?**
- I. Yes, this will have an adverse impact on Indian economy.
 II. Yes, this is the only way to make the Indian banks survive and prosper.

- Directions (Qns. 176-180):** In making decisions about important questions, it is desirable to be able to distinguish between 'strong' arguments about which there is a strong agreement and 'weak' arguments about which there is a weak agreement. You have to decide which argument is a strong argument and which is a weak argument.
- 176. Should there be capital punishment for those who are found guilty of rape charges?**
- I. Yes, this is the only way to eliminate such atrocities on women.
- Arguments:**
- 1) If only argument I is strong
 2) If only argument II is strong
 3) If either I or II is strong
 4) If neither I nor II is strong
 5) If both I and II are strong
- Give answer** 1) If only argument I is strong
 2) If only argument II is strong
 3) If either I or II is strong
 4) If neither I nor II is strong
 5) If both I and II are strong
- Directions (Qns. 176-180):** In making decisions about important questions, it is desirable to be able to distinguish between 'strong' arguments about which there is a strong agreement and 'weak' arguments about which there is a weak agreement.
- 175. Statements: B.D., D.S.M., F% M**
- Conclusions: I. B#M II. F% B**
- 176. Statements: M.S.K., D.K., R#K**
- Conclusions: I. D\$M II. M% D**
- 177. Statements: F+M, M%R, E@F**
- Conclusions: I. M%E II. R@E**
- 178. Statements: H\$K, T#H, W*T**
- Conclusions: I. K%W II. T#K**
- 179. Statements: N%A, A#L, F\$N**
- Conclusions: I. L%F II. F%A**
- 180. Statements: B.D., D\$M, F%M**
- Conclusions: I. B#M II. F%M**
- Each question below is followed by two arguments numbered I and II. You have to decide which argument is a strong argument and which is a weak argument.**
- 176. Should there be capital punishment for those who are found guilty of rape charges?**
- I. Yes, this is the only way to eliminate such atrocities on women.
- Arguments:**
- 1) If only argument I is strong
 2) If only argument II is strong
 3) If either I or II is strong
 4) If neither I nor II is strong
 5) If both I and II are strong

- 187. Statements:** a. All roads are buses.
 b. All flowers are men.
 c. Some skies are men.
- Conclusions:** I. No road is man.
 II. No road is sky.
 III. Some skies are men.
 IV. All roads are men.
- 188. Statements:** a. All fans are rooms.
 b. No room is green.
 c. Some windows are green.
 d. No room is green.
 e. Some windows are fans.
- Conclusions:** I. Some windows are rooms.
 II. Some windows are green.
 III. Some fans are green.
 IV. No green is fan.
- 189. Statements:** a. Some tablets are rains.
 b. All dogs are rains.
 c. All rains are chairs.
 d. All dogs are chairs.
 e. Some tablets are dogs.
- Conclusions:** I. Some chairs are tablets.
 II. All dogs are chairs.
 III. Some tablets are dogs.
 IV. Some tablets are chairs.
- 190. Statements:** a. No man is sky.
 b. No sky is road.
 c. Some men are roads.
 d. Some skies are men.
 e. None of these
- 191. On which day of the week did Q leave?**
- 1) Sunday
 2) Saturday
 3) Wednesday
 4) Thursday
 5) None of these
- 192. Who left for Bangalore?**
- 1) Sunday
 2) Saturday
 3) Wednesday
 4) Data inadequate
 5) None of these
- 193. On which day of the week did T leave?**
- 1) T
 2) P
 3) V
 4) Data inadequate
 5) None of these
- 194. Which of the following combinations of person-place is not correct?**
- 1) R—Jaipur
 2) P—Chandigarh
 3) T—Hyderabad
 4) V—Bangalore
 5) All are correct
- 195. Who left on Tuesday?**
- 1) P
 2) W
 3) Q
 4) V
 5) None of these

- Directions (Qns. 201-205): Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity. Mark answer.**
- A, B, C, D, E, F and G are seven persons who travel to office everyday by a particular train which stops at five stations I, II, III, IV and V respectively after it leaves base station. Three among them get in the train at the base station. D gets down at the next station at which F gets down. B does not get down either with A or E. G alone gets in at station III and gets down with C after having passed one station. A travels between only two stations and gets down at station V. None of them gets in at station II. C gets in with F but does not get in with either B or D. E gets in with two others and gets down alone after D. If the inference is 'definitely false', ie if the facts given you cannot say whether the inference is likely to be true or false.
- 1) If the inference is 'probably true', though not definitely true, in the light of the facts given.
- 2) If the inference is 'probably true', ie from the facts given.
- 3) If the 'data are inadequate', ie from the facts given.
- 4) If the inference is 'probably false', though not definitely false, in the light of the facts given.
- 5) If the inference is 'definitely false', ie if the facts given you cannot say whether the inference is likely to be true or false.
- 6) Gets down at station V.
- 7) C gets in with F but does not get in with either B or D.
- 8) E gets in with two others and gets down alone after D.
- 9) B and D work in the same office and they get down together at station III.
- 10) None of them gets down at station I.
- 196. At which station does E get down?**
- 1) #III 2) #III
- 3) #IV 4) #V
- 5) None of these
- 197. At which station do C and F get in?**
- 1) #III 2) #III
- 3) #IV 4) #V
- 5) None of these
- 198. At which of the following stations do B and D get in?**
- 1) #II 2) Base station
- 3) ## 4) Data inadequate
- 4) Data inadequate
- 5) None of these
- 199. After how many stations does E get down?**
- 1) One 2) Two
- 3) Three 4) Four
- 5) Five
- 200. E gets down after how many stations at which F gets down?**
- 1) Next station 2) Two
- 2) Many stations
- 3) Selling only in all the months in this financial year.
- 4) Selling only in all the months in this financial year.
- 5) Domestic institutions have been consistently selling only in all the months in this financial year.
201. Domestic institutions have been consistently selling only in all the months in this financial year.
202. FIs bought more than what was sold by domestic institutions this financial year.

$$\text{or, } 23x^2 = 460 \times 20$$

$$\text{or, } x^2 = 20 \times 20$$

$$\text{or, } x = 20 \text{ m}$$

114. 1 List price of calculator

$$= \frac{82.50}{30} \times 100 = \text{Rs. } 275$$

Deepa bought calculator in
 $275 \times 0.70 = \text{Rs. } 192.50$

115. 5

O, A, E	S	F	T	W	R
---------	---	---	---	---	---

When the vowels are always together, then treat all the vowels as a single letter and then all the letters can be arranged in $6!$ ways and also all three vowels can be arranged in $3!$ ways. Hence, required no. of arrangements = $6! \times 3! = 4320$.

116. 2 Distance covered in first two hours

$$70 \times 2 = 140 \text{ km}$$

Distance covered in next two hours

$$= 80 \times 2 = 160 \text{ km}$$

Distance covered in first four hours

$$= 140 + 160 = 300 \text{ km}$$

$$\text{Remaining distance} = 345 - 300 = 45 \text{ km}$$

Now, this distance will be covered at the rate of 90 km/hr.

$$\therefore \text{time taken} = \frac{45}{90} = \frac{1}{2} \text{ hour}$$

$$\therefore \text{Total time} = 4 + \frac{1}{2} = 4\frac{1}{2} \text{ hours.}$$

117. 3 Quicker Method:

Area of boundary = 2 (width of boundary) \times [length + breadth of rectangular plot + 2 \times width of boundary]

$$= 2 \times 1 \times [340/2 + 2 \times 1] = 344 \text{ m}^2$$

$$\therefore \text{cost of gardening} = 10 \times 344 = \text{Rs. } 3440$$

118. 1 Reqd no. of ways = ${}^7C_4 \times {}^8C_4$

$$= \frac{7 \times 6 \times 5 \times 4}{1 \times 2 \times 3 \times 4} \times \frac{8 \times 7 \times 6 \times 5}{1 \times 2 \times 3 \times 4}$$

$$= 35 \times 70 = 2450$$

119. 4 Let p and r be the principal amount and rate of interest respectively.

Then, $\frac{p \times r \times 7}{100} = 1750 \text{ or, } pr = 25000$

Now, $SI = \frac{p \times (r+2) \times 7}{100}$

We have to find the value of

$$\frac{p \times (r+2) \times 7}{100} - \frac{p \times r \times 7}{100} = M - 1750$$

$M = SI$ when the rate of interest is 2% more. When we solve this equation, we find that we have two variables and one equation. Therefore, Can't be determined is the correct answer.

120. 1 Reqd ratio = $5 \times \frac{140}{100} : 7 \times \frac{150}{100} : 8 \times \frac{175}{100}$
 $= 5 \times 140 : 7 \times 150 : 8 \times 175 = 2 : 3 : 4$

121. 5 $96^{3.7} + 95^{0.9999} = 95^2$
or, $95^2 = 95^{3.7-0.9999}$
or, $95^2 \approx 95^{2.7}$ or, ? = 2.70

122. 2 $\sqrt{10000} + \frac{3.001}{4.987} \text{ of } 1891.992 = ?$

$$\text{or, } ? \approx 100 + \frac{3}{5} \text{ of } 1900$$

$$= 100 + 1140 \approx 1230$$

123. 3 $? = 0.0004 + 0.0001 \times 36.000009$
 $= 4 \times 36.000009 \approx 145$

124. 1 $? = 137\% \text{ of } 12345$
 $= (100 + 37)\% \text{ of } 12345$
 $\approx 12345 + 4570 \approx 17000$

125. 3 $? = 3739 + 164 \times 27$
 $= 3739 + 4428 \approx 8200$

126. 1 Total marks obtained by Meera
 $= 60 + 32 + 65 + 135 + 108 + 48 = 448$

127. 4 Avg marks obtained by seven students in History

$$= \frac{32 + 28 + 28 + 24 + 36 + 24 + 32}{7}$$

$$= 29.14$$

128. 2 Only Kunal and Soni got 60% or more marks in all the subjects.

ANSWERS**GENERAL AWARENESS**

2.	4	3.	1	4.	4	5.	4	6.	4	7.	5	8.	2	9.	2	10.	2	
21.	3	12.	4	13.	4	14.	4	15.	4	16.	1	17.	2	18.	3	19.	4	
31.	5	22.	1	23.	5	24.	1	25.	5	26.	3	27.	3	28.	4	29.	2	
41.	5	32.	1	33.	2	34.	1	35.	1	36.	5	37.	4	38.	1	39.	1	
		42.	1	43.	4	44.	4	45.	2	46.	4	47.	4	48.	5	49.	3	
																	50.	3

ENGLISH LANGUAGE

51.	5	52.	4	53.	1	54.	3	55.	2	56.	4	57.	2	58.	1	59.	5	60.	3
61.	4	62.	2	63.	5	64.	3	65.	1	66.	1	67.	3	68.	5	69.	1	70.	2
71.	3	72.	4	73.	5	74.	3	75.	3	76.	5	77.	4	78.	4	79.	5	80.	4
81.	1	82.	5	83.	2	84.	4	85.	3	86.	5	87.	4	88.	2	89.	3	90.	1
91.	4	92.	5	93.	2	94.	3	95.	1	96.	5	97.	4	98.	2	99.	3	100.	1

QUANTITATIVE APTITUDE

101. 4 On the basis of ratio, we can't find out the difference (in terms of money) between Imports and Exports.
102. 2 Amount of Exports will be more than the Imports when the ratio is more than 1. Hence, our answer is 2000 and 2002.
103. 5 Amount of Exports in 2000 for company A
 $= 378 \times 1 = \text{Rs. } 378 \text{ cr}$
104. 1 From the graph, it is obvious that the difference in the ratios of Exports to Imports of company A and B is minimum in the year 2000 and 2002.
105. 3 $E_{\text{98(A)}} = 2E_{\text{98(B)}}$
Exports of company A in 1998
 $= 400 \times 1.75 = \text{Rs. } 700 \text{ cr}$
Exports of company B in 1998
 $= \frac{700}{2} = \text{Rs. } 350 \text{ cr}$
Imports of Company B in 1998
 $= \frac{350}{0.75} = \text{Rs. } 470 \text{ cr}$
106. 4 The series is $\times 3+5, \times 4-6, \times 5+7, \times 6-8, \dots$
107. 1 The series is $+1^2, +2^2, +3^2, +4^2, \dots$
108. 4 The series is $7 + 9 = 16; 16 + 9 = 25; 25 + 16 = 41; 41 + 25 = 66; 66 + 41 = 107 \dots$
109. 3 The series is $\times 0.5, \times 1.5, \times 2.5, \times 3.5, \dots$
110. 2 The series is $\times 0.25, \times 0.5, \times 0.75, \times 1, \dots$
111. 1 Let the two-digit no. be $10x + y$.
Then, $(10x + y) - (10y + x) = 36$
or, $x - y = 4$
112. 3 Reqd no. $= \frac{2}{5} \times 200 - \frac{3}{5} \times 125$
 $= 80 - 75 = 5$
113. 5 Let the breadth of the rectangular field be 'x' m. Then, length of the field will be
 $x + \frac{x \times 15}{100} = \frac{23x}{20}$
Now, $x \times \frac{23x}{20} = 460$

129. 3 Avg percentage of Kunal

$$\frac{90 + 70 + 60 + 90 + 70 + 70}{6} = 75\%$$

130. 1

131. 4 Here, neither the speed of the train nor the individual length of the train is given. Hence, 4 is the correct answer.

132. 4 When we combine statements I and II together, we can find the area of the triangle, which is also the area of the rectangle. But without knowing the breadth of the rectangle, length of the rectangle can't be determined.

$$133. 3 \text{ I. } \rightarrow \text{Rate of interest} = \frac{100}{1000} \times 100 = 10\%$$

$$\therefore \text{CI at the end of 3 yrs} = 1000 \times \frac{33.1}{100} \\ = \text{Rs. 331}$$

II. \rightarrow Rate of interest

$$= \sqrt{\frac{10 \times 100 \times 100}{1000}} = 10\%$$

\therefore CI at the end of 3 yrs

$$= 1000 \times \frac{33.1}{100} = \text{Rs. 331}$$

Hence, individual statements alone are sufficient to answer the question.

134. 5 Let the two-digit no. be $10x + y$ ($y < x$).

I. $x - y = 5$

II. $x + y = 7$

When we combine both statements together, value of 'x' and 'y' can be determined. Hence, both statements together are sufficient to answer the question.

135. 4 Let the distance between A and B be D km and speed of the boat in current and still water be x km/hr and y km/hr respectively.

I. $\rightarrow D = (x + y)2$

II. $\rightarrow D = (x - y)4$

Even if we combine both statements, we can't find out the answer, because we have two equations and three variables.

Quicker Method:

$$\frac{\text{Speed of the boat}}{\text{Speed of the stream}} =$$

$\frac{\text{Upstream time taken}}{\text{Downstream time taken}}$

$\frac{\text{Upstream time taken}}{\text{Downstream time taken}}$

$\frac{\text{Upstream time taken}}{\text{Downstream time taken}}$

Therefore, from (I) & (II) we can only find the ratio between the speed of boat and stream.

$$136. 5 \text{ I. } p^2 + 5p + 6 = 0 \\ \text{or, } (p + 3)(p + 2) = 0 \\ \text{ie. } p = -3 \text{ or } -2 \\ \text{II. } q^2 + 3q + 2 = 0 \quad \text{or, } (q + 2)(q + 1) = 0 \\ \text{ie. } q = -1 \text{ or, } -2 \\ \text{Hence, } q \geq p$$

$$137. 4 \text{ I. } p^2 = 4 \quad \text{or, } p = \pm 2 \\ \text{II. } q^2 + 4q = -4 \quad \text{or, } q^2 + 4q + 4 = 0 \\ \text{or, } (q+2)^2 = 0 \\ \text{or, } q + 2 = 0 \quad \text{or, } q = -2 \\ \text{Hence, } p \geq q$$

$$138. 2 \text{ I. } p^2 + p = 56 \quad \text{or, } p^2 + p - 56 = 0 \\ \text{or, } p^2 + 8p - 7p - 56 = 0 \\ \text{or, } (p - 7)(p + 8) = 0 \\ \text{ie. } p = -8 \text{ or, } 7 \\ \text{II. } q^2 - 17q + 72 = 0 \\ \text{or, } (q - 8)(q - 9) = 0 \\ \text{ie. } q = 8 \text{ or, } 9 \\ \text{Hence, } q > p$$

$$139. 1 \text{ I. } 3p + 2q - 58 = 0 \quad \text{or, } 3p + 2q = 58 \\ \text{II. } 4q + 4p = 92 \quad \text{or, } q + p = 23 \\ \text{or, } p = 23 - q \\ \text{or, } 3(23 - q) + 2q = 58 \quad (\text{from I}) \\ \text{or, } 69 - 3q + 2q = 58 \quad \text{or, } q = 11 \\ \text{Also, } p = 23 - q = 23 - 11 = 12 \\ \text{Hence, } p > q.$$

$$140. 2 \text{ I. } 3p^2 + 17p + 10 = 0 \\ 3p^2 + 15p + 2p + 10 = 0 \\ \text{or, } (p + 5)(3p + 2) = 0 \\ \text{ie. } p = -5 \text{ or, } -2/3 \\ \text{II. } 10q^2 + 9q + 2 = 0 \\ \text{ie. } 10q^2 + 5q + 4q + 2 = 0 \\ \text{or, } 5q(2q + 2)(2q + 1) = 0 \\ \text{ie. } q = -2/5 \text{ or, } -1/2 \\ \text{Hence, } q > p$$

141. 1 Income of Company B in 2000

$$= 200 \times \frac{120}{100} = \text{Rs. } 240 \text{ cr}$$

142. 3 Expenditure of Company A in 2002

$$= 600 \times \frac{100}{160} = \text{Rs. } 375 \text{ cr}$$

143. 4 We can find out the amount of profit in 1998, we do not know the income and expenditure of A and B, therefore option 4 is the correct choice.

144. 2 Ratio of their expenditure

$$\frac{100}{135} \times \frac{130}{100} = 26 : 27$$

145. 1 Reqd% increase = $\frac{35 - 20}{20} \times 100 = 75\%$

146. 2 It is obvious from the graph.

147. 3 Amount of fat in different options:

$$1. 56 + 39 = 95; \quad 2. 40 + 56 = 96;$$

$$3. 13 + 84 = 97; \quad 4. 39 + 28 + 20 = 87;$$

$$5. 42 + 30 + 19.5 = 81.5$$

Hence, option (3) supplies the most fat diet.

148. 5 Both A and B are equal.

149. 3 Reqd difference = (35 - 33)% of 250000
2% of 250000 = 5000

$$150. 1 \quad x = \frac{a}{a-1}; \quad y = \frac{1}{a-1}$$

$$x - y = \frac{a}{a-1} - \frac{1}{a-1} = \frac{a-1}{a-1} = 1$$

or, $x = 1 + y \rightarrow$ This implies that x is greater than y.

REASONING

151. 2 Here B \Rightarrow 5, E \Rightarrow %, A \Rightarrow *, M \Rightarrow K, C \Rightarrow \$, O \Rightarrow 7
Therefore, BOMB \Rightarrow 57K5

152. 5 Here specific letters are: E, M, A and L. Words formed with these letters are as follows:

1. LAME 2. MALE 3. MEAL

Since, no. of words formed by the given letters is more than two our answer is choice 5.

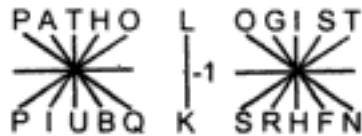
153. 3 All other numbers are in the form of $n^2 + 4$, where n is a natural number.

154. 1 They are synonymous.

155. 3 Except it others are birds whereas bat is a mammal.

156. 4 Lack of first one cause second one.

157. 1



Five letters of the word PATHOLOGIST are reversed first and then coded as one place forward. Similarly, the last five letters of the word are reversed then coded as one place backward. Middle letter is coded as one place backward.

Hence, CONTROVERSY will be written as SUOPDNXRQDU.

158. 4 Here given number is 95137248

When the number is arranged in ascending order, number becomes as follows 12345789. Now look at the following pairs: 35, 38 and 47. What you observe? These pairs are those pairs each of which has as many digits between them in the number as when they are arranged in ascending order.

159. 5 Reject 1) because the equation does not tell about sex of R. Reject 2) and 3) also on the same basis. In equation 2) M is the grandson of K. This implies that with the help of the given information in the direction it is possible to form an equation which can show that R is the grandson of K. Hence, reject 4) also.

160. 1

161. 2 Here the given numbers are:

517 325 639 841 792

After reversing, the numbers become as follows:

715 523 936 148 297

When arranged in descending order the numbers become as follows:

936 715 523 297 148

b) 'they' is ho [from (ii), (iv) and (a)].

c) 'welcome' is pit [from (i) and (iv)].

d) 'people' is od [by elimination in (iv)].

e) 'are' is na [from (i) and (ii)].

f) 'very' is pa [by elimination in (ii)].

166. 4 167. 3

168. 5 Only iii is redundant.

160. 1**161. 2** Here the given numbers are:

517 325 639 841 792

After reversing, the numbers become as follows:

715 523 936 148 297

When arranged in decending order the numbers become as follows:

936 715 523 297 148

Now, the third number from top is 523.

Hence, the last digit of 523 is 3.

162. 4 After interchanging the first and the second digits, numbers become as follows:

157 235 369 481 972

When arranged in decending order the numbers become as follows:

972 481 369 235 157

Here, the second lowest number is 235.

Hence, middle digit of 235 is 3.

163. 1 If the positions of only the second and the third digits within each number are interchanged, the numbers become as follows:

571 352 693 814 729

Now, when the numbers are arranged in decending order, we get

814 729 693 571 352

Here, 729 is the second highest number.

Hence, the first digit of 729 is 7.

164. 3**165. 4** We have been given that Q travels towards East and M travels towards North.

North, T travels towards right of Q implies that T travels towards South. Hence, S travels towards North (because S and T travel in opposite directions). Therefore, it is definitely true that M and S travel in the same direction ie North.

(166-168):pit na sa \Rightarrow you are welcome.....(i)na ho pa la \Rightarrow they are very good(ii)ka da la \Rightarrow who is good(iii)od ho pit la \Rightarrow they welcome good people...(iv)

Code for

a) 'good' is la [from (ii) and (iv)].

b) 'they' is ho [from (ii), (iv) and (a)].

c) 'welcome' is pit [from (i) and (iv)].

d) 'people' is od [by elimination in (iv)].

e) 'are' is na [from (i) and (ii)].

f) 'very' is pa [by elimination in (ii)].

166. 4 167. 3**168. 5** Only iii is redundant.**(169-170):**

Pranab	\Leftrightarrow	R
(+)		(-)

--	--	--	--

* or	Neela	Prakash	Vikash
(-)	(-)	(+)	

Mohan	Arun		
(+)			

169. 1 170. 3**171. 3** $M = K \dots \text{(i)}$; $D \leq K \dots \text{(ii)}$ $R < K \dots \text{(iii)}$

From (i) and (ii), we get

 $M = K \geq D \Rightarrow M \geq D$ Hence, either $M > D$ (conclusion II) or $M = D$ (conclusion I) is true.**172. 4** $F \geq M \dots \text{(i)}$; $M > R \dots \text{(ii)}$; $E \geq F \dots \text{(iii)}$

From (i) and (iii), no specific relation can be obtained between M and E. Similarly, no specific relation can be obtained between R and E.

173. 5 $H = K \dots \text{(i)}$; $T < H \dots \text{(ii)}$; $W \leq T \dots \text{(iii)}$

From (i), (ii) and (iii), we get

 $K = H > T \geq W \Rightarrow K > W$ (conclusion I) and $T < K$ (conclusion II).**174. 2** $N > A \dots \text{(i)}$, $A < L \dots \text{(ii)}$; $F = N \dots \text{(iii)}$

From (i) and (iii), we get

 $F = N > A \Rightarrow F > A$ (conclusion II). But no specific relation can be obtained between L and F. Hence, conclusion I is not necessarily true.**175. 2** $B \leq D \dots \text{(i)}$; $D = M \dots \text{(ii)}$; $F > M \dots \text{(iii)}$

From (i), (ii) and (iii), we get

 $F > M = D \geq B \Rightarrow B \leq M$ and $F > B$ (conclusion II).Since $B \leq M$, therefore conclusion I is not necessarily true.

176. 2 I is weak because it is not true. Is it the only way? Second is correct on logical thinking.
177. 5 I is strong because such sweeping powers often tend to fall prey to vested interests. II is strong on the ground of performance.
178. 2 I is weak because it gives importance to the privacy of the individual more than medical examination, ie health care. II is a strong argument because it is a desirable piece of truth.
179. 1 I is strong as it is based on an established fact. II is not true. Hence, II is a weak argument.
180. 1 I is strong because it is not desirable that the Indian economy be led into trouble. II is weak because this is not the only way.
181. 2 I is not implicit. It is assumed that people will pay taxes. That is why II is implicit. But the Govt does not necessarily assume that people will continue with these schemes. Maybe it is discouraging people from being mere savers rather than investors.
182. 5 No government decides to impose extra taxes unless it assumes that the amount it has insufficient to serve its purpose. Hence, I is implicit. II is also implicit; otherwise the government would have increased the levy from the targeted 2%.
183. 1 I is implicit from the tone of the offer of the 'X' Housing Finance company. But, II is not implicit.
184. 2 The real concern of WHO is the low per capita expenditure on health in India. Now, how will the initiative taken by WHO minimise the concern? The assumption is that the enhanced assistance may substantially increase the per capita expenditure on health in India. But, assumption I is not implicit due to the last part of it, ie 'and bring it on par with other countries.' Again, no one provides help to others unless one assumes that the other needs it. Hence, assumption II is implicit.
185. 2
186. 3 Conclusion II follows from conversion of the conclusion obtained from statement (b) and statement (c) [$\therefore I + A = II$]. Conclusions I, III and IV do not follow because statement (a) + statement (b) gives no conclusion. But the conclusions I and IV make a complementary pair IE-type. Hence, either of the two follows.
187. 4 Conclusion IV follows from statement (b) and statement (a) and statement (b) give no conclusion [$\therefore A + I = \text{no conclusion}$]. Therefore, conclusions II and III do not follow.
188. 3 Statement (a) + statement (b) gives the conclusion "No fans are green" [say (d)] [$\therefore A + E = E$]. Now, conversion of statement (d) gives conclusion IV. Now statement (c) + conclusion IV gives the conclusion "Some windows are not fans". Hence, I does not follow. Conclusion III does not follow because conclusion IV follows. Again, statement (b) + conversion of statement (c) gives the conclusion "Some windows are not rooms". Hence, Conclusion II does not follow.
189. 5 Only I, II and IV follow.
Statement (a) + statement (c) gives conclusion IV [$\therefore I + A = II$]. Statement (b) + statement (c) gives conclusion II [$\therefore A + A = A$]. Now, statement (b) + conversion of statement (a) gives no conclusion. Hence, conclusion III does not follow. Conversion of conclusion IV gives conclusion I.
190. 5 Only II follows.
Statement (a) + statement (b) gives no conclusion [$\therefore E + E = \text{no conclusion}$]. Hence, I does not follow. Note that I does not follow from conversion of statement (b). Conclusion III does not follow from statement (a). Conclusion IV does not follow from statement (c).

(191-195):

Here, seven friends are: P, Q, R, S, T, V and W
Seven destinations are : Delhi, Chennai, Hyderabad, Bangalore, Kolkata, Chandigarh and Jaipur.

R — Jaipur — Monday; Bangalore — Saturday;

P — Chandigarh; S — Kolkata — Friday;
W — Delhi

With the help of above information we get the following table:

Table I

No.	Person	Desination	Day
1.	R	Jaipur	Monday
2.		Bangalore	Saturday
3.	P	Chandigarh	
4.	S	Kolkata	Friday
5.	W	Delhi	

Let us use indirect information. Since Q did not leave for either Hyderabad or Bangalore, the above table helps us conclude that **Q left for Chennai**.

Now, T left the next day of P's departure and on previous day of W's. According to the above table, P and W did not depart on Monday, Saturday or Friday. T did not depart on Monday or Friday.

Now P can't depart on Sunday or Thursday because T did not depart on Monday or Friday respectively. P can't depart on Wednesday because W did not depart on Friday. Hence, by elimination, **P left for Chandigarh on Tuesday, T left for its destination on Wednesday and W left for Delhi on Thursday**.

Now look upon Table II

Table II

No.	Person	Desination	Day
1.	R	Jaipur	Monday
2.		Bangalore	Saturday
3.	P	Chandigarh	Tuesday
4.	S	Kolkata	Friday
5.	W	Delhi	Thursday
6.		Hyderabad	
7.	Q	Chennai	

Now, since T left for his destination on

Wednesday, it is obvious that T's destination is **Hyderabad**.

By elimination, **V is going to Bangalore, and Q left for chennai on Sunday**.

Hence, the above information can be summarised as follow.

No.	Person	Desination	Day
1.	R	Jaipur	Monday
2.	V	Bangalore	Saturday
3.	P	Chandigarh	Tuesday
4.	S	Kolkata	Friday
5.	W	Delhi	Thursday
6.	T	Hyderabad	Wednesday
7.	Q	Chennai	Sunday

191. 1 192. 3 193. 4 194. 5 195. 1

(196-200):

Here the persons who travel are: A, B, C, D, E, F and G.

Stations are: Base station, #I, #II, #III, #IV and #V. Let us proceed with the following information: (1), (4), (5), (6), (9), (8) and (10). These informations give us the following table:

Station	Get in	Get Down
Base station	---	x x x
# I		x x x
# II	x x x	
# III	Only G	B,D
# IV	A	Only E
# V	x x x	A, G, C

Now from clue (2), F gets down at #II. And he got in either at base station or at #I.

Now, since F got down at #II and he had got in with C, it implies that both C and F got in either at base station or at #I.

Again, since B and D get down at #III this implies that they too got in either at base station or at #I.

It is given that E got in with two other persons ie in a group of three persons. Obviously, **E got in at base station**.

Hence, once again the above information can be summarised as:

Station	Get in	Get Down
Base station	E and (C, F) or (B, D)	x x x
# I	(C, F) or (B, D)	x x x
# II	x x x	Only F
# III	Only G	B, D
# IV	A	Only E
# V	x x x	A, G, C

196. 3 197. 4 198. 4 199. 4 200. 2

201. 5 See the sentence "one of the long time".
 202. 1 See the sentence "This financial by Flis".
 203. 4 Shift in investor portfolios and emerging positive scenario make the inference probably false.
 204. 2 See the last part of the passage.

205. 3

(206-210):

Q. No.	Person	i	ii	iii	iv	v	Answer
206.	Ashok	x	x	x	x	x	1
207.	Navin	x	x	x	x	✓	2
208.	Prabhu	✓	x	x	x	✓	2
209.	Meena	x	x	✓	x	x	3
210.	Shobha	✓	x	x	x	✓	4

211. 3 The elements move half-a-side CW in each step. A new element is added in each step on CW end and ACW end alternately while the end elements interchange places. So do second from CW and second from ACW-end elements.
 212. 4 In subsequent steps 1, 2, 3, 4.... elements get inverted while the elements shift half-a-side ACW.
 213. 5 In each step the whole figure rotates by 45° CW while one arc is added alternately on ACW and CW ends.

214. 2 In alternate steps the arrow shifts 1½ and 2 sides CW while it rotates by 45° ACW alternately.
 215. 4 Two and one petals are lost in alternate steps.
 216. 2 In all others a pair of similar elements appear together.
 217. 4 In all others the number of elements on ACW side increases while that on CW side decreases by one.
 218. 3 The whole figure rotates by 135° and gets inverted.
 219. 4 The no. of sides of the closed-ended element and the no. of arcs increase by one. One of the existing arcs gets inverted while the new one faces outward.
 220. 5 An arc is added to the single bar which remains static.
 221. 5 In each step, element 'C' rotates by 90° and shifts one step downwards. The arrow shifts diagonally and rotates by 180° alternately. The pin rotates by 45° ACW and 90° CW alternately while it shifts one step downwards in each step.
 222. 1 The CW-end element shifts one side and half-a-side CW while the other elements are arranged in reverse order. A new element is added in each step once on ACW end and next on CW end.
 223. 3 One of the corner elements shifts to centre. The central element shifts to ACW corner. The ACW-corner elements shift diagonally while the third one is replaced by a new one. This change goes on in ACW order.
 224. 2 Two, three, four, two..... arcs are inverted in subsequent steps.
 225. 3 The main figure rotates by 90° ACW. The circle and the square shift from one side to another in each step while the others shift one step ACW. One and two new elements appear in alternate steps in place of the square and the circle.

PROBATIONARY OFFICERS' EXAM.

(BANK OF MAHARASHTRA)

Original Question Paper – Exam. held on 01-06-2003

GENERAL AWARENESS

1. As per the National Health Policy 2002, polio must be eradicated from India by the end of the year....

- 1) 2003 2) 2004
 3) 2005 4) 2006
 5) 2007

2. As per the Budget for the year 2003 -04, the sportspersons are allowed some deduction from their income received as professional fees. What is the maximum amount for such deduction per annum?

- 1) Rs 25000 2) Rs 50000
 3) Rs 75000 4) Rs 100000
 5) None of these

3. Who amongst the following recently became the first bowler to take 500 wickets in one-day cricket matches?

- 1) Wasim Akram 2) Shane Warne
 3) Glenn McGrath 4) Shoaib Akhtar
 5) None of these

4. Recently some pilots of Air India were suspended. Which of the following statement(s) is/are correct in this regard?

- A. They refused to operate additional flights planned to bring Indians stuck up in Iraq.
 B. They refused to operate flights to the SARS-affected places
 C. They refused to fly with those cabin crew whose family members were detected positive for SARS during the previous ten days.
 D. They opposed the Govt's initiative to privatise Air India.

- 1) Only A 2) Only B
 3) Only B & C 4) Only D
 5) Only C & D

5. Which of the following is the purpose of bringing Prevention of Money Laundering Act 2002?

A. It will help identify those who do not declare their real income and pay income tax only on small fraction of their total income.

B. It will help Anti-Corruption Bureau to identify those public servants who have accumulated great wealth by way of corrupt practices.

C. The aim is to identify the end use of money as lot of people are helping terrorism indirectly by paying money to some suspicious organisations in the form of donations.

- 1) Only A 2) Only B
 3) Only C 4) Only A & B
 5) None of these

6. Who amongst the following is the recipient of the twelfth Vyas Samman for the year 2002?

- 1) Dr Kailash Vajpeyi
 2) Dr Namvar Singh
 3) Shri Giriraj Kishore
 4) Shri Mithileshwar
 5) None of these

7. In India the Foreign Direct Investment (FDI) Statistics are published by two official sources. These are

- 1) Central Statistical Organisation and FICCI
 2) Reserve Bank of India and Indian Banks' Association
 3) Reserve Bank of India and Secretariat for Industrial Assistance (SIA)
 4) Central Statistical Organisation and RBI
 5) None of these

8. The Eighth National Youth Festival was organized in January 2003 in

- 1) Gwalior 2) Bangalore
 3) New Delhi 4) Kochi
 5) Thiruvananthapuram

9. The Govt of India recently announced the setting up of which of the following commissions for the first time headed by the former Chief Justice of India, Justice BN Kirpal?
- Law Commission
 - Women Commission
 - Finance Commission
 - National Forest Commission
 - None of these
10. Most of the farmers in India possess a very small piece of land for farming. The average land holding size in India is only
- 2.00 hectares
 - 2.6 hectares
 - 3.00 hectares
 - 3.6 hectares
 - 4.25 hectares
11. Which of the following banks of Indian origin has recently launched 'Home Point', an NRI remittance product, in Canada in association with Bank of Montreal?
- UTI Bank
 - State Bank of India
 - ING Vysya Bank
 - ICICI Bank
 - None of these
12. The objective of Antyodaya Anna Yojana is to provide
- midday meals to school children
 - food to families that fall in the limits of below-poverty-line regime
 - wages in terms of rice/wheat etc to those engaged as labourer in various food-for-work schemes
 - food to the people of drought-affected areas
 - None of these
13. Indian Navy recently got its anti-missile system which is installed on its frigate INS Ganga. The name of the anti - missile is
- Barak
 - Nag
 - Akash
 - Trishul
 - Tejas
14. On which of the following dates was the 'World Tuberculosis Day' observed?
- 23rd March
 - 23rd May
 - 23rd February
 - 23rd January
 - None of these
15. Which of the following two countries are considered as the world's largest producers of opium as indicated in the annual report of the International Narcotics Control Board?
- China and Bangladesh
 - Afghanistan and China
 - Myanmar and Afghanistan
 - Myanmar and China
 - None of these
16. Which of the following statements is true about the income tax benefits to the companies who have spent huge amounts on Voluntary Retirement Schemes (VRS)?
- Such companies are allowed to get exemptions on income tax.
 - Such companies are allowed to get full exemptions on income tax.
 - This concession on income tax is available only to those companies who made VRS payments before 2000-01.
- Only A
 - Only B
 - Only C
 - Only B & C
 - None of these
17. The Securities and Exchange Board of India (SEBI) has indicated that T + 2 settlement will be made applicable in all the stock exchanges in India from April 2003. What does T + 2 settlement mean?
- The settlement of stock deals including paperwork will be completed in a fixed tenure of two weeks' time.
 - The settlement of stock deals should be completed in two trading days. However, paperwork may take some more time.
 - All trading should be recorded in duplicate as one copy is required to be given for registration to SEBI also.
- Only A is true
 - Only B is true
 - Only C is true
 - Only B & C are true
 - None of these.

- 18.** In response to the appeal made by the United Nations Organisation (UNO) an assistance of 20 million US dollars was recently released by India to help
 1) China, where an earthquake occurred
 2) Ethiopia, where people were dying of hunger
 3) Serbia, where ethnic clashes had played havoc on the people
 4) War-raged Iraq
 5) None of these
- 19.** As per the Budget 2003-04 for which of the following purposes has a Special Purpose Vehicle (SPV) worth Rs 8000 crore been set up under National Rail Vikas Yojana?
 1) For conversion of narrow gauge lines to broad gauge
 2) For modernisation of rail stock
 3) For strengthening the golden quadrilateral
 4) For doubling of single rail lines
 5) For modernisation of railway communication
- 20.** In which of the following states, a special programme, Maru Gochar Yojana, has been introduced?
 1) Gujarat 2) Rajasthan
 3) Orissa 4) Haryana
 5) Karnataka
- 21.** After a gap of how many years, the Current Account of India's balance of payments has recorded a surplus in the year 2001-2002?
 1) 18 2) 23
 3) 28 4) 29
 5) None of these
- 22.** Which of the following gases is used for purification of water?
 1) Oxygen 2) Nitrogen
 3) Chlorine 4) Carbon dioxide
 5) None of these
- 23.** The 52-week average inflation rate is based on
 1) Retail Price Index
 2) Industrial Price Index
 3) Wholesale Price Index
 4) Select Commodities Price Index
 5) None of these
- 24.** Which of the following is the base year for assessment of GDP at factor cost?
 1) 1992-93 prices 2) 1993-94 prices
 3) 1994-95 prices 4) 1995-96 prices
 5) None of these
- 25.** For which of the following purposes additional cess of 50 paise on diesel has been proposed in Budget 2003-04?
 1) For the development of rural roads
 2) For the development of semi-urban areas
 3) For the development of roads in North-East States
 4) For the repair of national highway
 5) For connecting rural roads with national highways
- 26.** For 10 grams of imported gold, as per Budget (2003-2004), which of the following customs duty on serially numbered gold bars is proposed? (In rupees)
 1) 50 2) 75
 3) 100 4) 150
 5) 250
- 27.** Which of the following is the objective of Debt Swap Scheme introduced by Government of India?
 1) To enable states to prepay high-cost debts
 2) To enable states to postpone their debt obligations
 3) To enable states to prepay high-cost debts and substitute it by open market loans
 4) To enable states to reschedule their loan instalments
 5) None of these
- 28.** Which of the following awards is given to persons for their excellent coaching to sportspersons?
 1). Arjuna Award 2) Kalidas Samman
 3) Dronacharya Award 4) Kala Sikhar Samman
 5) None of these
- 29.** Which of the following institutions has propagated Self-Help Group (SHG)?
 1) RBI 2) RRB
 3) NABARD 4) SIDBI
 5) IDBI

30. RBI has told banks to make additional provisioning for country risk. For which of the following countries this provisioning is applicable?
- Countries which are prone to war risk
 - Countries where banks' net funded exposure is 2% or more of its total assets
 - Countries where banks' net funded exposure is 5% or more of its total assets
 - Countries on which UN trade embargo has been imposed
 - None of these
31. Which of the following industries is the largest employment provider?
- Jute
 - Textiles
 - Pharmaceuticals
 - Power generation
 - Tourism
32. What is the minimum age of a person (in years) to be eligible to get concessions available to senior citizens for travelling in railways?
- 60
 - 62
 - 65
 - 70
 - None of these
33. In order to save cost in respect of its power requirements, with which of the following companies has the Railways entered into a joint venture?
- Tata Power
 - Reliance Power
 - Essar Power
 - NTPC
 - None of these
34. Which of the following is the period of Tenth Five-Year Plan?
- 2001-2002
 - 2002-2007
 - 2003-2008
 - 2004-2009
 - None of these
35. Government has recently relaxed norms in respect of ceiling on investment in plant and machinery for being treated as an SSI unit on certain stationery and drug manufacturing items. What is the new ceiling (in Rs crores) fixed for this purpose?
- 1) Two 2) Three
3) Four 4) Five
5) None of these
36. As per RBI guidelines, what is the period of default after which a lender can recall back the entire dues in a home loan extended to a borrower?
- Two irregular instalment payments
 - Default of two instalments
 - Default of three instalments
 - Default of six instalments
 - Default of six instalments in the entire repayment period
37. Which of the following is the objective of Sarva Shiksha Abhiyan?
- It is an effort in the area of elementary education
 - It is an effort in the area of providing education to elders
 - It is an effort to provide education to street children
 - It is an effort to provide education to children working with factories as child labour
 - None of these
38. As per Planning Commission Estimates, how much employment opportunities shall be created over the 10th Plan period?
- One million
 - Two million
 - Five million
 - Fifty million
 - None of these
39. Which of the following is the limit fixed for which banks can enter into one-time settlement of chronic bad loans?
- Rs 50 lakhs
 - Rs 1 crore
 - Rs 3 crores
 - Rs 5 crores
 - None of these
40. To which of the following is the National Agricultural Insurance Scheme (NAIS) applicable?
- Select food crops
 - All food crops
 - All plantations
 - Select plantations
 - None of these

- 41. Which of the following is the objective of "Hariyali" Scheme as detailed in Economic Survey 2002-03?**
- To provide nurseries in villages
 - To promote user participation in various watershed conservation projects
 - To provide seeds to farmers for vegetable nurseries
 - To provide irrigation facilities to small farmers
 - None of these
- 42. Expand the term DPAP.**
- Drought Prone Area Project
 - Drought Protection Area Programme
 - Drought Project Action Plan
 - District Project Action Plan
 - None of these
- 43. Which of the following is the objective of Competition Bill 2001 passed by the Parliament in December 2002?**
- Deregulation of markets
 - Better regulation of markets
 - To reduce Government interference in financial markets
 - To make SEBI responsible for regulation of markets
 - None of these
- 44. By which of the following dates, Government intends to cover all the eligible farmers under Kisan Credit Card (KCC) scheme?**
- 1.3.2003
 - 31.3.2003
 - 1.3.2004
 - 31.3.2004
 - None of these
- 45. According to Union Budget 2003-04, up to what extent Govt. of India proposes to raise share capital (in Rs crores) of ECGC?**
- 50
 - 75
 - 80
 - 100
 - None of these
- 46. Which of the following proposals of Budget 2003-04 is not correct?**
- Standard deduction is now Rs 30000 for income upto Rs 5 lakhs.
 - Standard deduction for income above Rs 5 lakhs is Rs 20000.
 - 8.5% surcharge goes for income upto Rs 8.5 lakhs.
 - Small savings rate has been cut by one per cent.
 - All the above are not correct
- 47. Which of the following is the objective of Securitisation and Re-construction of Financial Assets Bill 2002?**
- It gives creditors the ability to seize collaterals when a loan becomes NPA.
 - It gives creditors judicial powers to recover their dues.
 - It gives creditors powers to take control of the companies.
 - It gives creditors powers to regulate the working of companies whose loans have become NPAs.
 - None of these
- 48. On which of the following subjects has Naresh Chandra Committee submitted its recommendations?**
- Direct taxes
 - Indirect taxes
 - Disinvestment in PSU
 - Corporate governance
 - None of these
- 49. Expand the form NHDF.**
- National Housing Development Fund
 - National Highways Development Fund
 - New Housing Development Fund
 - National Human Development Fund
 - None of these
- 50. As per Economic Survey, which of the following is expected (GDP%) growth in the current financial year?**
- 3.3
 - 3.7
 - 4.4
 - 5.0
 - None of these

ENGLISH LANGUAGE

Directions (Qns. 51-60): In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

In the past, it was thought learning knowledge took place in school and for some also in further education. Then it was a matter of (51) practical skills at work at the beginning of a career, and with a bit of luck, that (52) it. Now things have changed. Global competition is (53) the shelf life of products and the knowledge and skills that (54) behind them. The pace of change can be (55). Knowledge that was leading edge at one minute can become (56) the next. Therefore, it is the (57) rather than knowledge that is the key. Successful organizations have to learn, adapt and change continuously as do the (58) within them. This is (59) in the rapid growth of knowledge workers. It is (60) all levels of organisations.

- | | |
|-------------------|------------------|
| 51. 1) fostering | 2) projecting |
| 3) acquiring | 4) manipulating |
| 5) culminating | |
| 52. 1) for | 2) was |
| 3) from | 4) with |
| 5) may | |
| 53. 1) replacing | 2) retailing |
| 3) rotating | 4) re-regulating |
| 5) reducing | |
| 54. 1) lie | 2) profess |
| 3) exhibit | 4) manifest |
| 5) express | |
| 55. 1) analytical | 2) absorbing |
| 3) interesting | 4) frightening |
| 5) valuable | |
| 56. 1) critical | 2) obsolete |
| 3) modern | 4) devastating |
| 5) lamentable | |
| 57. 1) durability | 2) reactivity |
| 3) activity | 4) proactivity |
| 5) capacity | |
| 58. 1) systems | 2) managements |
| 3) processes | 4) individuals |
| 5) units | |

- | | |
|------------------|----------------|
| 59. 1) echoed | 2) supported |
| 3) adjusted | 4) provided |
| 5) developed | |
| 60. 1) directing | 2) providing |
| 3) affecting | 4) questioning |
| 5) projecting | |

Directions (Qns. 61-65): Choose the word which is most nearly the SAME in meaning as the word given in BOLD.

61. Palpable

- | | |
|-------------|-------------|
| 1) Distinct | 2) Rueful |
| 3) Pleasant | 4) Composed |
| 5) Miserly | |

62. Abstruse

- | | |
|------------------|--------------|
| 1) Dispassionate | 2) Placid |
| 3) Analogous | 4) Concealed |
| 5) Drained | |

63. Cavalcade

- | | |
|-----------------|--|
| 1) Remission | |
| 2) Apprehension | |
| 3) Procession | |
| 4) Division | |
| 5) Bargain | |

64. Hobbling

- | | |
|--------------|----------------|
| 1) Depressed | 2) Insincere |
| 3) Robust | 4) Consecrated |
| 5) Crippled | |

65. Meddle

- | | |
|-----------|-----------|
| 1) Depose | 2) Tamper |
| 3) Rare | 4) Extend |
| 5) Gauge | |

Directions (Qns. 66-70): Choose the word which is MOST OPPOSITE in meaning of the word given in BOLD.

66. Pedantic

- | | |
|----------------|-------------|
| 1) Exceptional | 2) Ignorant |
| 3) Singular | 4) Gentle |
| 5) Prophetic | |

67. Serene

- | | |
|--------------|--------------|
| 1) Placid | 2) Indignant |
| 3) Profound | 4) Disturbed |
| 5) Cognisant | |

68. Torpid

- | | |
|--------------|-------------|
| 1) Alert | 2) Indolent |
| 3) Pitiable | 4) Composed |
| 5) Momentary | |

69. Luminous

- | | |
|----------------|-------------|
| 1) Delectable | 2) Lucid |
| 3) Distasteful | 4) Composed |
| 5) Momentary | |

70. Innate

- | | |
|---------------|-------------|
| 1) Congenital | 2) Culpable |
| 3) Acquired | 4) Curious |
| 5) Crazy | |

Directions (Qns. 71-80): Pick out the most effective pair of words from the given pair of words to make the sentence/s meaningfully complete.

71. Professionals focus their on fulfilling their responsibilities and achieving results, not on a particular image.

- 1) planning, devising
- 2) leadership, attributing
- 3) abilities, contributing
- 4) energies, portraying
- 5) skills, obtaining

72. "Patriotism is the last refuge of the scoundrel", says Johnson. In the modern world where the cunning selfish people and the hardworking conscientious people the quotation holds good.

- 1) dominate, suppress
- 2) thrive, suffer
- 3) enjoy, mutilate
- 4) empower, subjected
- 5) harass, abdicate

73. We must rest assured that our sorrows, if any, are short-lived and period of joy.... us. Such thinking will always maintain our and peace of mind.

- 1) begets, dream
- 2) befits, body
- 3) bemoans, skills
- 4) merits, life
- 5) awaits, equipoise

74. When you are living with your values and principles, you can be straightforward, honest and

- 1) core, upfront
- 2) inherited, distinct
- 3) innate, durable
- 4) cultural, perceptive
- 5) inborn, vehement

75. In the role of a counsellor, you are an authority figure whose objective is to attentively and sensitively to employees who you with their feelings.

- 1) project, focus
- 2) manage, direct
- 3) listen, trust
- 4) concentrate, believe
- 5) consider, explain

76. If a junior executive neglects his professional development and education, he can easily and quickly become obsolete in a world changing at rates.

- 1) management, voluminous
- 2) higher, vulnerable
- 3) better, supreme
- 4) continuing, dizzying
- 5) value, profound

77. Harassment is just plain There is never a valid reason or a good for it.

- 1) wrong, excuse
- 2) murder, command
- 3) falsehood, remedy
- 4) killing, magic
- 5) offence, strategy

78. Man is He likes to know how things work. The search for understanding isin its own right.

- 1) evolving, prophetic
- 2) inquisitive, legitimate
- 3) appreciative, fundamental
- 4) curious, philosophical
- 5) social, judgemental

79. Leadership is one of the world's oldest The understanding of leadership has figured strongly in thefor knowledge.

- 1) cultures, desire
- 2) institutions, passion
- 3) pre-occupations, quest
- 4) subjects, preference
- 5) undertakings, conviction

80. Our to understand the process of learning underlying behaviour change areby the fact that any given behaviour is determined jointly by many processes.

- 1) nature, determined
- 2) scope, preceded
- 3) implications, followed
- 4) limitations, moderated
- 5) attempts, complicated

Directions (Qns. 81-85): Reach each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is (5). (Ignore errors of punctuation, if any).

81. As I reached the hospital (1)/I had found, a great rush of visitors (2)/ whose relatives had been admitted there (3)/ for one or the other ailment. (4)/ No error (5)

82. One should study the history (1)/ of his country because it alone can satisfy (2)/ one's natural curiosity to know (3)/ what happened in the past. (4)/ No error (5)

83. It is interesting to note (1)/ that the greatest lines in poetry are simple (2) / and yet there is with them some quality (3)/ which makes them outstandingly great. (4)/No error (5)

84. In order to make human life happy, (1)/ man should live (2) /as far as possible (3)/ in perfect harmony with nature. (4)/ No error (5)

85. You have heard (1)/ of Socrates, I suppose. (2)/Undoubtedly he was one (3)/of the greatest man of the world. (4)/ No error (5)

Directions (Q. 86-90): Rearrange the following seven sentences (A), (B), (C), (D), (E), (F) and (G) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- (A) It takes its recourse to progressive march towards perfection.
- (B) But, one may conclude, while science is inclined towards reason, spiritualism is the essence of religion.
- (C) In religion deviation from the set course

is permissible, though some more rationalistic religious leaders also allow questioning and their satisfactory answers.

- (D) Many people believe that science and religion are contrary to each other.
- (E) The tools of religion, on the other hand, are faith, intuition, and the spoken word of the enlightened..
- (F) The method of science is observation, experiment and experience.
- (G) There is no doubt that the methods of science and religion are different.

86. Which of the following will be the SECOND sentence?

- | | |
|------|------|
| 1) F | 2) E |
| 3) D | 4) B |
| 5) G | |

87. Which of the following will be the FOURTH sentence?

- | | |
|------|------|
| 1) B | 2) A |
| 3) D | 4) F |
| 5) C | |

88. Which of the following will be the LAST sentence?

- | | |
|------|------|
| 1) C | 2) A |
| 3) D | 4) B |
| 5) E | |

89. Which of the following will be the FIRST sentence?

- | | |
|------|------|
| 1) C | 2) B |
| 3) D | 4) F |
| 5) A | |

90. Which of the following will be the SIXTH sentence?

- | | |
|------|------|
| 1) C | 2) F |
| 3) A | 4) G |
| 5) D | |

Directions (Qns. 91-100): Read the following passage carefully and answer the questions given below it. Certain words/expressions are printed in BOLD in the passage to help you locate them while answering some of the questions.

Now the question arises: What is the secret of the longevity and imperishability of Indian culture?

Why is it that such great empires and nations as **Babylon, Assyria, Greece, Rome and Persia** could not last more than the footprints of a camel on the shifting sands of the deserts while India, which faces the same ups and downs, the same mighty and cruel hand of time, is still alive and with the same halo of glory and splendour? The answer is given by Prof. J.B. Pratt of America. According to him, Hindu religion is "**self-perpetuating and self-renewing.**" Unlike other religions, "not death, but development" has been the fate of Hinduism. Not only Hindu religion but the whole culture of the Hindus has been growing, changing, and developing in accordance with the needs of times and circumstances without losing its essentially imperishable spirit. The culture of the Vedic ages, of the ages of the Upanishads, the various philosophical systems, the Mahabharata, the Smritis, the Puranas, various scholarly commentators, the medieval saints, and the age of modern reformers is the same in spirit and yet very different in form. Its basic principles are so broad-based that they can be adapted to almost any environment of development.

91. In what respect is India implied to be superior to all other nations and empires?

- 1) Democratic traditions
- 2) Territorial expansion
- 3) Cultural development
- 4) Archaeological reserves
- 5) Diverse wild life

92. Which of the following combinations of periods of Indian culture is INCORRECT as mentioned in the passage?

- 1) The Puranas, the Mahabharata, the medieval saints
- 2) The Smritis, the modern reformers, the Vedas
- 3) The Upanishads, the philosophical system, the Smritis
- 4) The Puranas, the Ramayana, the Mahabharata
- 5) The modern reformers, the Vedas, the medieval saints

93. What changes has the spirit of Indian culture undergone during the long period of history right from the Vedic age down to the present time?

- 1) The prevalence of moral values was eclipsed at certain periods of time.
- 2) The spirit of Indian culture has remained unchanged from the ancient times down to the present.
- 3) Materialism was the hallmark of Indian culture during certain periods of time
- 4) There is no such thing as any spirit of Indian culture.
- 5) During certain periods authoritarian values dominated over democratic values.

94. Choose the word which is **SIMILAR in meaning as the word **perpetuating** as used in the passage.**

- | | |
|---------------|-----------------|
| 1) Continuing | 2) Appreciating |
| 3) Enjoying | 4) Languishing |
| 5) Confirming | |

95. Which of the following statements is **NOT TRUE in the context of the passage?**

- 1) Mighty and cruel hand of time spares none.
- 2) Assyria was a great empire and nation.
- 3) The culture of the Vedic ages and the ages of the Upanishads is different in form.
- 4) Hindu religion is growing and changing.
- 5) Indian culture is transient and ephemeral.

96. ".... could not last more than the footprints of a camel on the shifting sands of the deserts". What does this expression mean as used in the passage?

- 1) It lost itself in desert.
- 2) It was transient.
- 3) It lacked solidity.
- 4) It was limited only to desert area.
- 5) It lacked cohesion.

97. What is the characteristic quality of the basic principles of Indian culture?

- 1) They are static.
- 2) They derive their strength from the genius of people.
- 3) They believe in the purity of Indian culture.
- 4) They can be adapted to almost any environment.
- 5) They project the glimpses of ancient civilisation.

98. What, according to the author, has always characterised the Hindu religion?

- 1) Spirituality and reactivity
 2) Proactivity and individual dignity
 3) Dynamism and growth
 4) Morality and stagnation
 5) Collective wisdom and democracy
- 99. Choose the word which is *MOST OPPOSITE* in meaning of the word 'last' as used in the passage.**
- 1) grow 2) diminish
 3) force 4) respond
 5) end

- 100. What, according to J.B. Pratt, is the secret of the longevity and imperishability of Indian culture?**
- 1) It has its origin in the remote past.
 2) It stems from the minds and hearts of its sages.
 3) It is founded on religion.
 4) It is founded on universal moral values.
 5) It is self-perpetuating and self-renewing.

QUANTITATIVE APTITUDE

101. Which of the following values of x satisfies the inequality $2x^2 - 3x + 1 > 0$?

1) $-1 < x < -\frac{1}{2}$

2) $\frac{1}{2} < x < 1$

3) $x > 1$ or $x < \frac{1}{2}$

4) $-\frac{1}{2} < x < 1$

5) None of these

102. The capacity of a cylindrical tank is 246.4 litres. If the height is 4 metres, what is the diameter of the base?

- 1) 1.4 metres 2) 2.8 metres
 3) 28 metres
 4) 14 metres
 5) None of these

103. What approximate value should come in place of the question mark (?)?

$$36.0001 + 5.9998 \times \sqrt{?} = 108.0005$$

- 1) 18 2) 16
 3) 256 4) 316
 5) 325

104. Radha started a business, investing Rs 75,000. After 3 months, Sunidhi joined her with an amount of Rs 1,25,000 and after another six months Neha joined them with an amount of Rs 1,50,000. Profit earned at the end of three years from

when Radha started the business should be distributed in what ratio among Radha, Sunidhi and Neha respectively?

- 1) 36 : 55 : 54
 2) 18 : 28 : 27
 3) 35 : 54 : 55
 4) Cannot be determined
 5) None of these

105. Four of the following five parts numbered (1), (2), (3), (4) and (5) are exactly equal. The number of the part which is not equal to the other four parts is your answer.

- 1) $75 \times 8 + 6 =$
 2) $98 + 2.5 + 15.2 \times 4 =$
 3) $\sqrt{225} \times 2^3 - 5 \times 2^2 =$
 4) $76 \times 1.5 - 5.5 \times 2.6 =$
 5) $48 \times 1.2 + 127.2 + 3 =$

Directions (Qns. 106-110): In each of the following questions a number series is given. After the series a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the number given, following the sequence of the given series, and answer the questions given below the series.

106. 4 2.25 3.25 7.125 18.25 51.875

- 7 (a) (b) (c) (d) (e)

What will come in place of (b)?

- 1) 4.125 2) 5.25
 3) 6.75 4) 4.75
 5) None of these

107. 3 40 176 537 1078 1079
 1 (a) (b) (c) (d) (e)

What will come in place of (e)?

- 1) 839 2) 738
 3) 829 4) 938
 5) None of these

108. 3 5 22 13.5 35 19
 5 (a) (b) (c) (d) (e)

What will come in place of (c)?

- 1) 16 2) 15.5
 3) 14.5 4) 13
 5) None of these

109. 9 10 16 57 212 1085
 2 (a) (b) (c) (d) (e)

What will come in place of (c)?

- 1) 37 2) 15
 3) 18 4) 25
 5) None of these

110. 7 20 46 98 202 410
 4 (a) (b) (c) (d) (e)

What will come in place of (d)?

- 1) 166 2) 184
 3) 146 4) 162
 5) None of these

Directions (Qns. 111-115): Each of the questions given below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

Give answer (1): if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

Give answer (2): if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

Give answer (3): if the data either in statement I alone or in statement II alone are sufficient to answer the question.

Give answer (4): if the data even in both statements I and II together are not sufficient to answer the question.

Give answer (5): if the data in both statements I and II together are necessary to answer the question.

111. What is the speed of a boat?

- I. The boat covers a distance of 48 km in 6 hours while running upstream.
- II. It covers the same distance in 4 hours while running downstream.

112. What was the population of State 'A' in 1999?

- I. Population of State 'A' increases every year by 20%.
- II. Population of State 'A' in 1999 was 172.8% of its population in 1996.

113. What is a two-digit number?

- I. Sum of the digits is equal to the difference between the digits.
- II. Difference between the digits is 9.

114. What is Sudha's present age?

- I. Sudha's present age is five times her son's present age.
- II. Five years ago her age was twenty-five times her son's age at that time.

115. What is the average age of the children in a class?

- I. The age of the teacher is as many years as the number of children.
- II. The average age increases by 1 year if teacher's age is also included.

Directions (Qns. 116-120): In each of the following questions two equations I and II are given. You have to solve both the equations and give answer

- 1) if $a < b$
- 2) if $a \leq b$
- 3) if $a \geq b$
- 4) if $a = b$
- 5) if $a > b$

- 116.** I. $a^2 - 5a + 6 = 0$ II. $b^2 - 3b + 2 = 0$
- 117.** I. $2a + 3b = 31$ II. $3a = 2b + 1$
- 118.** I. $2a^2 + 5a - 3 = 0$ II. $2b^2 - 5b + 3 = 0$
- 119.** I. $4a^2 = 1$ II. $4b^2 - 12b + 5 = 0$
- 120.** I. $6a^2 + 5a + 1 = 0$ II. $15b^2 + 19b + 6 = 0$
- 121.** Free notebooks were distributed equally among children of a class. The number of notebooks each child got was one-eighth of the number of children. Had the number of children been half, each child would have got 16 notebooks. How many notebooks were distributed in all?
- 1) 432 2) 640
3) 256 4) 512
5) None of these
- 122.** Twenty times a positive integer is less than its square by 96. What is the integer?
- 1) 24 2) 20
3) 30 4) Cannot be determined
5) None of these
- 123.** In how many different ways can the letters of the word ORGANISE be arranged in such a way that all the vowels always come together and all the consonants always come together?
- 1) 576 2) 1152
3) 2880 4) 1440
5) None of these
- 124.** The speed of a car increases by 2 km after every hour. If the distance travelled in the first hour was 35 km, what was the total distance travelled in 12 hours?
- 1) 522 km 2) 456 km
3) 556 km 4) 482 km
5) None of these
- 125.** Mr. Sridharan invested money in two schemes A and B, offering compound interest @ 8% p.a. and 9% p.a. respectively. If the total amount of interest accrued through the two schemes together in two years was Rs 4818.30 and the total amount invested was Rs 27,000, what was the amount invested in Scheme A?
- I) Rs 15,000 2) Rs 13,500
3) Rs 12,000
4) Cannot be determined
5) None of these
- Directions (Q. 126-130):** These questions are based on the following information. Study the information carefully and answer the questions.
- Total population of a village is 35000. Out of these 70% are literate. 44% of the total population are females. Out of the total illiterate population, males and females are in the ratio of 28 : 47 respectively.
- 126.** What is the ratio of illiterate to literate females?
- 1) 63 : 47 2) 47 : 63
3) 16 : 47 4) 47 : 16
5) None of these
- 127.** Out of the total literate population, what is the ratio males to females?
- 1) 17 : 8 2) 8 : 17
3) 9 : 16 4) 16 : 9
5) None of these
- 128.** What is the total number of male population?
- 1) 15400 2) 18600
3) 17800 4) 19400
5) None of these
- 129.** If 5% of the male literate population are graduates, how many male graduates are there in the village?
- 1) 784 2) 196
3) 980 4) 120
5) None of these
- 130.** What is the total number of illiterate females?
- 1) 6850 2) 6480
3) 6580 4) 8820
5) None of these
- Directions (Qns. 131-135):** Study the following table carefully to answer these questions.

Number of students studying different disciplines at graduate level from State 'A' over the years

Discipline/ year	Arts	Commerce	Science	Agriculture	Medicine	Engineering
1997	2400	3200	4200	840	2350	3180
1998	2250	3500	4820	760	2120	3340
1999	3050	2850	4550	1120	2640	3650
2000	2800	3640	4680	930	1890	3490
2001	2980	3080	5220	780	2260	3280
2002	2770	3800	3950	810	2450	3500

131. Total number of students studying Medicine for all the years together is approximately what per cent of those studying Engineering for all the years together?

- 1) 60
- 2) 67
- 3) 72
- 4) 75
- 5) 73

132. What is the average number of students studying Arts? (Rounded off to an integer)

- 1) 2905
- 2) 2480
- 3) 2308
- 4) 2708
- 5) None of these

133. For which of the following years, percentage increase/decrease in the number of students studying Commerce with respect to the previous year is the maximum?

- 1) 1998
- 2) 1999
- 3) 2000
- 4) 2001
- 5) 2002

134. The number of students studying Agriculture in the year 1999 is what per cent of the total number of students studying rest of the disciplines together during that year? (Rounded off to two digits after decimal)

- 1) 6.69
- 2) 6.27
- 3) 6.82
- 4) 6.39
- 5) None of these

135. The number of students studying Commerce in 2001 is approximately what

per cent of the total number of students studying Commerce for all the given years together?

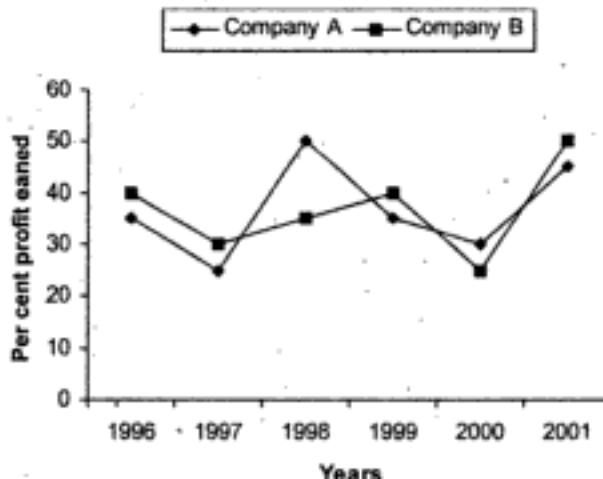
- 1) 19
- 2) 11
- 3) 12
- 4) 18
- 5) 15

Directions (Qns. 136-140): Study the following graph to answer these questions.

Per cent profit earned by two Companies A & B over the years

$$\text{Profit} = \text{Income} - \text{Expenditure}$$

$$\% \text{ Profit} = \frac{\text{Profit}}{\text{Expenditure}} \times 100$$



136. If the income of Company 'A' in 1998 was Rs 1,42,500, what was its expenditure in that year?

- 1) Rs 1,05,000
- 2) Rs 95,500
- 3) Rs 99,500
- 4) Rs 1,05,555
- 5) None of these

137. Expenditure of Company 'B' in 1999 was 90% of its expenditure in 1998. Income of Company 'B' in 1999 was what per cent of its income in 1998?

- 1) 130.5
- 2) $96\frac{2}{3}$
- 3) 121.5
- 4) $99\frac{1}{3}$
- 5) None of these

138. If the expenditure of Company 'A' in 1997 was Rs 70 lakhs and income of Company A in 1997 was equal to its expenditure in 1998, what was the total income (in Rs lakh) of the Company A in 1997 & 1998 together?

- 1) 175
- 2) 131.25
- 3) 218.75
- 4) Cannot be determined
- 5) None of these

139. Expenditure of Company 'B' in years 1996 and 1997 were in the ratio of 5 : 7 respectively. What was the respective ratio of their incomes?

- 1) 10 : 13
- 2) 8 : 13
- 3) 13 : 14
- 4) 11 : 14
- 5) None of these

140. Total expenditure of Companies A & B together in 2001 was Rs 13.5 lakhs. What was the total income of the two companies (in Rs lakh) in that year?

- 1) 19.575
- 2) 20.25
- 3) 19.75
- 4) Cannot be determined
- 5) None of these

Directions (Qns. 141-145): Study the following table carefully to answer these questions.

Percentage of marks obtained by six students in six different subjects

Stu/ Sub	Psy. (150)	Socio. (120)	Econ. (80)	Philos. (75)	Statis. (125)	Geolo. (60)
A	72	65	85	65	88	72
B	68	58	74	70	78	54
C	63	73	69	57	68	65
D	56	65	77	61	75	67
E	78	55	82	76	59	74
F	84	70	64	78	82	80

Note: Figures written in bracket under each subject indicate the maximum marks allotted for that subject.

141. What is the difference between the total marks obtained by A in Psychology and Statistics together and the total marks obtained by F in these two subjects together?

- 1) 12.5
- 2) 6
- 3) 10.5
- 4) 11.6
- 5) None of these

142. What is the average percentage of marks obtained by six students in Sociology?

- 1) $77\frac{1}{3}$
- 2) $64\frac{1}{5}$
- 3) $77\frac{1}{5}$
- 4) $64\frac{1}{3}$
- 5) None of these

143. What is the average marks obtained by the six students in Philosophy out of 75?

- 1) 58.75
- 2) 50.875
- 3) 67.83
- 4) 65.73
- 5) None of these

144. What is the total marks obtained by 'A' in Psychology, Economics and Geology together?

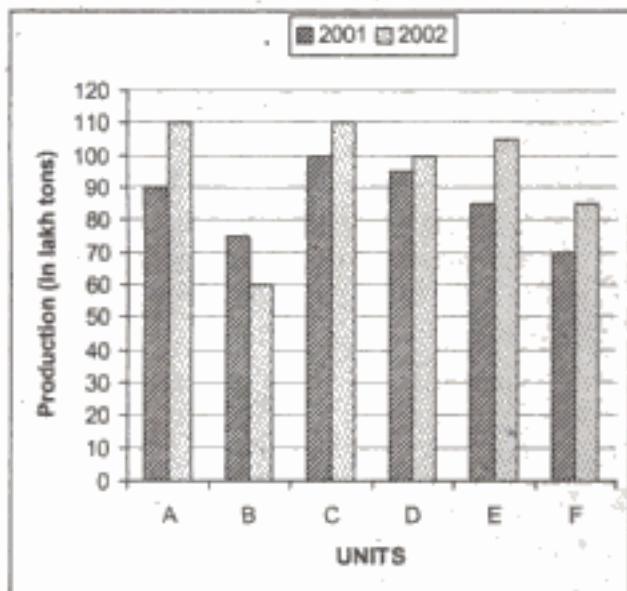
- 1) 219.2
- 2) 229
- 3) 209.8
- 4) 229.6
- 5) None of these

145. Approximately what is the overall percentage of marks obtained by 'C' in all the subjects together?

- 1) 60
- 2) 56
- 3) 72
- 4) 76
- 5) 66

Directions (Qns. 146-150): Study the following graphs carefully to answer these questions.

Production (in lakh tons) of six units of a company in 2001 and 2002



146. What is the average production of all the units (in lakh tons) for the year 2002?

- 1) 89
- 2) 92
- 3) 87
- 4) 95
- 5) None of these

147. Average production of three units A, B & C in 2001 is what per cent of the average

production of units D, E & F in 2002? (rounded off to two digits after decimal)

- 1) 109.43
- 2) 90.37
- 3) 91.38
- 4) 106.43
- 5) None of these

148. What is the ratio of total production for two years together for unit B to that for C?

- 1) 17 : 13
- 2) 13 : 17
- 3) 11 : 13
- 4) 19 : 13
- 5) None of these

149. Total production for two years together by unit F is what per cent of the total production of the two years together by unit D? (rounded off to two digits after decimal)

- 1) 79.49
- 2) 78.49
- 3) 78.47
- 4) 79.29
- 5) None of these

150. What is the total production of units C, D & E together for both the years? (in lakh tons)

- 1) 495
- 2) 595
- 3) 545
- 4) 515
- 5) None of these

TEST OF REASONING

151. How many meaningful words can be formed by replacing only the consonants in the word BREAK by the next letter in the English alphabet and keeping the vowels unchanged?

- 1) None
- 2) One
- 3) Two
- 4) Three
- 5) More than three

152. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- 1) 143
- 2) 63
- 3) 195
- 4) 15
- 5) 257

153. How many such pairs of letters are there in the word ORIENTAL each of which has

as many letters between them in the word as in the English alphabet?

- 1) None
- 2) One
- 3) Two
- 4) Three
- 5) More than three

154. In a certain code CHAIR is written as #*●+\$ and HIDE is written as *++\$. How is DEAR written in that code?

- 1) \$+●%
- 2) +\$+\$
- 3) \$+\$%+
- 4) +#●%
- 5) None of these

155. In a certain code AROMATIC is written as BQPLBSJB. How is BRAIN written in that code?

- 1) CQBJO
- 2) CSBJO
- 3) CQBHO
- 4) CSBHO
- 5) None of these

156. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- 1) August 2) December
3) July 4) January
5) May

157. The positions of the first and the eighth letters in the word WORKINGS are interchanged. Similarly, the positions of the second and the seventh letters are interchanged, the positions of the third letter and the sixth letter are interchanged, and the positions of the remaining two letters are interchanged with each other. Which of the following will be the third letter to the left of R after the rearrangement?

- 1) G 2) S
3) I 4) N
5) None of these

158. If it is possible to make a number which is perfect square of a two-digit odd number with the second, the sixth and ninth digits of the number 187642539, which of the following is the digit in the unit's place of that two-digit odd number?

- 1) 1 2) 7
3) 9
4) No such number can be made
5) More than one such number can be made

Directions (Qns. 159-160): Study the following information and answer the questions given below.

- (i) 'P + Q' means 'Q is father of P'.
(ii) 'P × Q' means 'P is sister of Q'.
(iii) 'P + Q' means 'P is brother of Q'.
(iv) 'P - Q' means 'Q is mother of P'.

159. Which of the following means R is nephew of T?

- 1) R + N - Q × T 2) R - Q × N × T
3) R - N × T 4) T + M - R
5) T - Q - R

160. Which of the following is/are redundant to answer the above question?

- 1) (ii) only 2) (i) only
3) (i) and (iv) only

- 4) Either (i) and (iii) or (ii) and (iv)
5) Either (i) and (ii) or (iii) and (iv)

161. 'Apparel' is related to 'Cloth'; in the same way as Footwear' is related to

- 1) Cobbler 2) Shoes
3) Sandals 4) Leather
5) Material

162. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- 1) Jackal 2) Cheetah
3) Tiger 4) Lion
5) Dog

163. 'Tree' is related to 'Sapling'; in the same way as 'horse' is related to

- 1) Cub 2) Foal
3) Puppy 4) Mule
5) Pony

164. If 'yellow' means 'green', 'green' means 'white', 'white' means 'red', 'red' means 'black', 'black' means 'blue' and 'blue' means 'violet', which of the following represents the colour of human blood?

- 1) black 2) violet
3) red 4) blue
5) None of these

165. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- 1) Cheese 2) Butter
3) Milk 4) Curd
5) Ghee

Directions (Qns. 166-170): Digits in the number given in each of the following questions are to be coded based on the codes and the conditions given below:

Digit	2	9	4	6	3	8	1	7	5	0
Code	P	M	R	K	T	V	B	W	F	D

Conditions:

- (i) If both the first and the last digits of a number are odd numbers, they should be coded as 'Z'.

- (ii) If both the first and the last digits of a number are even numbers, they should be coded as 'A'.

Now based on the above information find out which of the combinations is the coded form of the given number in each question.

166. 938752

- | | |
|------------------|-----------|
| 1) MTVMWP | 2) MTBZWP |
| 3) WPMKTV | 4) MTVWFP |
| 5) None of these | |

167. 372581

- | | |
|------------------|-----------|
| 1) ZWPFVZ | 2) ZWPPVB |
| 3) TWPFVZ | 4) AWPFVA |
| 5) None of these | |

168. 631597

- | | |
|------------------|-----------|
| 1) KTBDMW | 2) TKBFMW |
| 3) KTBFMW | 4) RTBFMW |
| 5) None of these | |

169. 843726

- | | |
|------------------|-----------|
| 1) ZRTWPA | 2) ZRWPZ |
| 3) ARTWPZ | 4) ARTVPA |
| 5) None of these | |

170. 789350

- | | |
|------------------|-----------|
| 1) WVMTFA | 2) WVMTFD |
| 3) ZVMTFD | 4) WVBTFD |
| 5) None of these | |

Directions (Qns. 171-175): In each of the questions below are given three statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

- 171. Statements:** a. All benches are trees.
b. All trees are flowers.
c. All flowers are fruits.

- Conclusions:** I. All fruits are benches.
II. All trees are fruits.
III. Some fruits are flowers.
IV. Some flowers are benches.

- 1) All follow
- 2) Only II, III and IV follow
- 3) Only III and IV follow
- 4) Only II and III follow
- 5) None of these

- 172. Statements:** a. Some trains are radios.
b. Some radios are waters.
c. All tigers are waters.

- Conclusions:** I. Some trains are tigers.
II. Some trains are waters.
III. No water is train.
IV. All waters are tigers.

- 1) None follows
- 2) Both II and III follow
- 3) Only either II or III follows
- 4) Only either I or III follows
- 5) Only either I or IV follows

- 173. Statements:** a. Some buses are rivers.
b. All rivers are mountains.
c. Some roads are mountains.

- Conclusions:** I. Some mountains are buses.
II. Some roads are buses.
III. Some roads are rivers.
IV. Some mountains are roads.

- 1) None follows
- 2) Only I and II follow
- 3) Only III and IV follow
- 4) Only I and IV follow
- 5) All follow

- 174. Statements:** a. All lions are jungles.
b. Some jungles are rabbits.
c. All rabbits are elephants.

- Conclusions:** I. Some rabbits are lions.
II. Some elephants are jungles.
III. Some elephants are lions.
IV. Some elephants are rabbits.

- 1) Only I and III follow
- 2) Only I and II follow
- 3) Only II and III follow
- 4) Only III and IV follow
- 5) None of these

- 175. Statements:** a. All books are pens.
b. No pens are houses.
c. All houses are doors.

Conclusions: I. No books are houses.
II. No books are doors.
III. Some doors are pens.
IV. Some houses are books.

- 1) Only I follows
- 2) Only I and II follow
- 3) Only II and III follow
- 4) Only III and IV follow
- 5) None of these

Directions (Qns. 176-180): In the following questions, the symbols #, @, \$, © and % are used with the following meaning as illustrated below:

'P # Q' means 'P is neither greater than nor equal to Q'.

'P @ Q' means 'P is neither greater than nor smaller than Q'.

'P \$ Q' means 'P is not smaller than Q'.

'P © Q' means 'P is neither smaller than nor equal to Q'.

'P % Q' means 'P is not greater than Q'.

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true?

Give answer (1) if only Conclusion I is true.

Give answer (2) if only Conclusion II is true.

Give answer (3) if either Conclusion I or II is true.

Give answer (4) if neither Conclusion I nor II is true.

Give answer (5) if both Conclusions I and II are true.

- 176. Statements** : MOR, R%T, T@N

Conclusions : I. N©R II. N@R

- 177. Statements** : D@K, K\$F, H#F

Conclusions : I. H#D II. D©F

- 178. Statements** : J%V, V#T, T©R

Conclusions : I. R@J II. R#J

- 179. Statements** : K@W, B%W, N#B

Conclusions : I. K@N II. N#K

- 180. Statements** : R©E, D@E, M\$D

Conclusions : I. D#R II. LE@R

Directions (Qns. 181-185): In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (1) if only Assumption I is implicit.

Give answer (2) if only Assumption II is implicit.

Give answer (3) if either I or II is implicit.

Give answer (4) if neither I nor II is implicit.

Give answer (5) if both I and II are implicit.

- 181. Statement:** The government has decided to pay compensation to the tune of Rs 1 lakh to the family members of those who are killed in railway accidents.

Assumptions:

I. The government has enough funds to meet the expenses due to compensation.

II. There may be reduction in incidents of railway accidents in near future.

- 182. Statement:** The X-Airlines has temporarily suspended flights to a few destinations for the next four days due to the strike call given by the Pilots' Association.

Assumptions:

I. The airlines may be able to restore all the flights after four days.

II. The Pilots' Association may withdraw the strike call within four days.

- 183. Statement:** The civic authority has appealed to the citizens to cooperate in curbing rampant power theft in the locality.

Assumptions:

I. The local citizens group may respond to the request and form groups of people to detect such cases of power theft.

II. Those who are engaged in stealing power may stop doing so for fear of social castigation.

184. Statement: The Parent-Teacher Association (PTA) of a school has informed the Principal that they will not send their children to the school unless the school authority reduces the fees with immediate effect.

Assumptions:

- I. Majority of the parents may agree with the PTA and may not send their wards to the school.
- II. The school authority may accede to the demand of the PTA and reduce the fees.

185. Statement: 'If you are first class graduate, our organisation is the best place for you to work.' — An advertisement

Assumptions:

- I. No other organisation may require first class graduates as they may not get adequate number of applications.
- II. First class graduates may get attracted and apply to this organisation.

Directions (Qns. 186-190): In making decisions about important questions, it is desirable to be able to distinguish between 'strong' arguments and 'weak' arguments. 'Strong' arguments are those which are both important and directly related to the question. 'Weak' arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question.

Each question below is followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument.

- | | |
|------------------------|--------------------------------|
| Give answer (1) | if only argument I is strong. |
| Give answer (2) | if only argument II is strong. |
| Give answer (3) | if either I or II is strong. |
| Give answer (4) | if neither I nor II is strong. |
| Give answer (5) | if both I and II are strong. |

186. Should all those who have come in contact with the patients suffering from the dreaded infectious respiratory disease be quarantined in their house?

Arguments:

- I. No, nobody should be quarantined unless they are tested and found to be infected by the virus causing the disease.
- II. Yes, this is the only way to control the spread of the dreaded disease.

187. Should there be only one rate of interest for term deposits of varying durations in banks?

Arguments:

- I. No, people will refrain from keeping money for longer duration resulting into reduction of liquidity level of banks.
- II. Yes, this will be much simple for the common people and they may be encouraged to keep more money in banks.

188. Should there be a cap on maximum number of contestants for parliamentary elections in any constituency?

Arguments:

- I. Yes, this will make the parliamentary elections more meaningful as the voters can make a considered judgement for casting their vote.
- II. No, in a democracy any person fulfilling the eligibility criteria can contest parliamentary elections and there should be no such restrictions.

189. Should all those who are found guilty of committing homicide or abetting homicide be either given capital punishment or kept in jail for the entire life?

Arguments:

- I. Yes, only such severe punishments will make people refrain from committing such heinous acts and the society will be more safe.
- II. No, those who are repentant for the crime they committed should be given a chance to lead a normal life outside the jail.

190. Should there be a restriction on the migration of people from one state to another in India?

Arguments:

- No, any Indian citizen has a basic right to stay at any place of their choice and hence they cannot be stopped.
- Yes, this is the way to effect an equitable distribution of resources across the states in India.

Directions (Qns. 191-195): Study the following arrangement carefully and answer the questions given below:

J 1 # P 4 E K 3 A D \$ R U M 9 N 5 I % T V * H 2 + F 6 G 8 Q W

191. How many such numbers are there in the above arrangement, each of which is either immediately preceded by or immediately followed by a vowel or both?

- None
- One
- Two
- Three
- More than three

192. Which of the following is exactly in the middle between the tenth from the left and the eighth from the right end in the above arrangement?

- M
- N
- 1
- 5
- None of these

193. If the order of the last fifteen elements in the above arrangement is reversed, which of the following will be the ninth to the right of the eleventh element from the left end?

- G
- %
- 8
- 3
- None of these

194. How many such consonants are there in the above arrangement, each of which is immediately preceded by a symbol but not immediately followed by either a number or a vowel?

- None
- One
- Two
- Three
- More than three

195. Four of the following five are alike in a certain way based on their position in the above arrangement and so form a group. Which is the one that does not belong to that group?

- A\$E
- %VN
- 2FV
- 4K1
- 6Q +

Directions (Qns. 196-200): Study the following information carefully and answer the questions given below.

- P, Q, R, S, T, V, W and Z are eight students in a class. Three of them play cricket and badminton each and two of them play hockey. Each one of them has a different height.
- The tallest does not play hockey and the shortest does not play cricket.
- V is taller than P and S but shorter than Z and Q. T, who does not play cricket, is taller than Q and is second to the tallest. W is shorter than S but taller than P.
- Z, who is the fourth from the top, plays badminton with S.
- W does not play either cricket or hockey. Q does not play hockey.

196. Who is the tallest?

- Q
- Z
- R
- Data inadequate
- None of these

197. Who is the shortest?

- W
- S
- Z
- Data inadequate
- None of these

198. Which of the following pairs of students plays hockey?

- TV
- ZT
- ZV
- Data inadequate
- None of these

199. What is V's position from the top when they are arranged in descending order of their height?

- Third
- Fifth
- Fourth
- Sixth
- None of these

200. Which of the following groups of students plays cricket?

- 1) RPT 2) RQV
- 3) RPQ 4) PQR or QRV
- 5) None of these

Directions (Qns. 201-205): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

Give answer (1) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

Give answer (2) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

Give answer (3) if the data either in statement I alone or in statement II alone are sufficient to answer the question.

Give answer (4) if the data given in both the statements I and II together are not sufficient to answer the question, and

Give answer (5) if the data given in both the statements I and II together are necessary to answer the question.

201. What is Sunil's position in a row of forty students?

- I. There are sixteen students towards the left of Sunil.
- II. There are twenty-three students towards the right of Sunil.

202. On which date in April was Varan born?

- I. Varan's mother remembers that Varan was born before nineteenth but after fifteenth.
- II. Varan's sister remembers that Varan was born before seventeenth but after twelfth.

203. How is 'go' written in a code language?

- I. 'you may go' is written as 'pitja ho' in that code language.
- II. 'he may come' is written as 'ja da na' in that language.

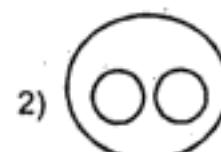
204. How is D related to M?

- I. M has two sisters K and R.
- II. D's mother is sister of K's father.

205. Who among M, T, R, J and K is the lightest?

- I. R is heavier than T and K but lighter than J.
- II. J is not the heaviest.

Directions (Qns. 206-210): Each of the questions below contains three elements. These three elements may or may not have some linkage. Each group of the elements may fit into one of the diagrams at (1), (2), (3), (4) and (5). You have to indicate the group of elements in each of the questions fits into which of the diagrams given below. The number of the diagram is the answer.



206. Vegetable, Potato, Cabbage

207. Metal, Iron, Chlorine

208. Classroom, College, Student

209. Anxiety, Intelligence, Strength

210. Nitrogen, Ice, Air

Directions (Qns. 211-220): Study the following information carefully and answer the questions given below:

Following are the criteria for recruiting Managers in an organisation:

The candidate must

- (i) be a graduate with atleast 60% marks or a postgraduate with 60% marks either at graduation or at postgraduation.
- (ii) not be less than 23 years and not more than 30 years as on 1.6.2003.
- (iii) have secured at least 50% in the competitive written examination and atleast 40% marks in the interview.
- (iv) have atleast three years' work experience after completing graduation and/or postgraduation.

In the case of a candidate who satisfies all the criteria except at

- (a) (i) above, but has obtained a PhD degree, his/her case is to be referred to the Managing Director.
- (b) (ii) above, but has put in more than five years of work experience, his/her case is to be referred to the Chairman.

Now based on the criteria and waivers given above and the information provided in each of the following questions, you have to decide a proper course of action as regards status of the candidates. You have are not to assume anything other than the information provided in each question. These cases are given to you as on 1.6.2003. You have to pick up one of the following answers.

Mark answer (1) if the candidate is not to be recruited.

Mark answer (2) if the case is to be referred to the Chairman.

Mark answer (3) if the candidate is to be referred to the Managing Director.

Mark answer (4) if the candidate is to be recruited.

Mark answer (5) if the data provided is not adequate to take a decision.

- 211. Adesh Kulkarni has secured 65% marks in his postgraduation. He was born on 21st April 1976. He has secured 55% and 45% marks in the competitive written examination and interview respectively. He has been working for the last five years after his postgraduation.
- 212. Suresh Oberoi secured 65% marks in postgraduation at the age of 26 in the year 1997. He has been working since then. He has secured 55% and 40% marks in the competitive written examination and interview respectively.
- 213. Vidisha Ghosh has secured 65% and 60% marks in the competitive written examination and interview respectively. She has also obtained her PhD degree. She was born on 25 th November, 1976. She has secured 55% marks in both graduation and postgraduation.
- 214. Jayant Desai was 28 years old as on 1.7.2001. He has secured 45% and 60% in graduation and postgraduation respectively. He has been working for the last three years after his postgraduation. He has secured 60% marks in the interview.
- 215. Joseph D'Souza is a first-class postgraduate in Economics. He has been working for four years since then. He has secured 50% and 40% marks in the competitive written examination and interview respectively. He was born on 11th May 1973.
- 216. Neha Khoobchandani was born on 27th October 1972. She has been working for the last seven years after her graduation in which she secured 65% marks. She has secured 45% and 55% marks in competitive written examination and interview respectively.
- 217. Arun Bhosle was born on 2nd January 1979. He has been working for the last three years after obtaining his PhD in Management. He has secured 50% and 55% marks in the competitive written examination and interview respectively. He has secured 55% marks in postgraduation.
- 218. Usha Agarwal has been working for the last eight years after her graduation. She has secured 65% and 55% marks in competitive

written examination and interview respectively. She was born on 10th August 1975. She is a first-class graduate.

- 219.** Anubha Goel was born on 3rd August 1977. She has secured 70% marks in graduation. She has been working for the last four years. She has secured 40% and 50% marks in the competitive written examination and interview respectively.
- 220.** Altaf Humín is a first-class postgraduate and has obtained his PhD in Science. He has been working for the last two years. He was born on 7th May 1977. He has secured 60% and 45% marks in the competitive written examination and interview respectively.

Directions (Qns. 221-225): Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Mark answer (1) if the inference is 'definitely true', i.e., it properly follows from the statement of facts given.

Mark answer (2) if the inference is 'probably true' though not 'definitely true' in the light of the facts given.

Mark answer (3) if the 'data are inadequate', i.e., from the facts given you cannot say whether the inference is likely to be true or false.

Mark answer (4) if the inference is 'probably false' though not 'definitely false' in the light of the facts given.

Mark answer (5) if the inference is 'definitely false', i.e., it cannot possibly be drawn from the facts given or it contradicts the given facts.

The prospects for the Indian economy this year will be influenced by the behaviour of the monsoon and expansion of commerce and trade. The Tenth Plan has envisaged the growth target of 8 per cent. If the agriculture sector does well and the world trade conditions improve, then it is possible to achieve a growth of 6-7 per cent. We need to improve our economy and aim at higher rate of growth in order to feed our population, maintain the standard of living and improve the quality of life. It is now more than 10 years we adopted reforms. We need to go forward in liberalisation but we cannot throw open the market for everything. There are sectors like village industries which need protection.

- 221.** The economic growth last year was below 6 per cent.
- 222.** Free market strategy is beneficial for India only in selected sectors.
- 223.** The current trend of liberalisation is good enough to sustain about 6 per cent growth.
- 224.** The economic growth in the current year will entirely depend on agricultural production.
- 225.** The world trade conditions have major impact on Indian economy.



ANSWERS**GENERAL AWARENESS**

- | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. (3) | 2. (4) | 3. (1) | 4. (2) | 5. (1) | 6. (1) | 7. (4) | 8. (2) | 9. (4) | 10. (2) |
| 11. (3) | 12. (2) | 13. (1) | 14. (5) | 15. (3) | 16. (2) | 17. (2) | 18. (4) | 19. (3) | 20. (2) |
| 21. (2) | 22. (3) | 23. (3) | 24. (2) | 25. (5) | 26. (3) | 27. (3) | 28. (3) | 29. (3) | 30. (3) |
| 31. (2) | 32. (1) | 33. (4) | 34. (2) | 35. (4) | 36. (4) | 37. (1) | 38. (4) | 39. (5) | 40. (1) |
| 41. (2) | 42. (1) | 43. (2) | 44. (5) | 45. (4) | 46. (3) | 47. (2) | 48. (4) | 49. (2) | 50. (3) |

ENGLISH LANGUAGE

- | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| 51. (3) | 52. (2) | 53. (5) | 54. (1) | 55. (4) | 56. (2) | 57. (4) | 58. (4) | 59. (1) | 60. 3 |
| 61. (1) | 62. (4) | 63. (3) | 64. (5) | 65. (2) | 66. (4) | 67. (4) | 68. (1) | 69. (3) | 70. 3 |
| 71. (4) | 72. (2) | 73. (5) | 74. (1) | 75. (3) | 76. (4) | 77. (1) | 78. (4) | 79. (3) | 80. (5) |
| 81. (2) | 82. (2) | 83. (3) | 84. (1) | 85. (4) | 86. (5) | 87. (2) | 88. (4) | 89. (3) | 90. (1) |
| 91. (3) | 92. (4) | 93. (2) | 94. (1) | 95. (5) | 96. (2) | 97. (4) | 98. (3) | 99. (5) | 100. (5) |

QUANTITATIVE APTITUDE

101. (3) $2x^2 - 3x + 1 = 0$
or $(2x - 1)(x - 1) = 0$

Hence, $\alpha = \frac{1}{2}$ and $\beta = 1$

Now, the given inequality is $2x^2 - 3x + 1 > 0$,
Hence sign scheme will be as follows:

+ve	1	-ve	1	+ve
	$\frac{1}{2}$			

$\therefore x < \frac{1}{2}$ or $x > 1$

[Note: If the inequality were $2x^2 - 3x + 1 < 0$;
the answer will be $\frac{1}{2} < x < 1$.]

102. (5) Capacity (volume) of a cylindrical tank = $\pi r^2 h$

(Here r = radius and h = height of the tank)

Now, from the question,

$$246.4 \times 0.001 = \frac{22}{7} \times r^2 \times 4$$

[$\because 1 \text{ litre} = 1000 \text{ cm}^3 = 0.001 \text{ m}^3$]

$$\text{or, } \frac{0.2464 \times 7}{22 \times 4} = r^2$$

$$\text{or, } r = 0.14 \text{ m or, diameter} = 2r = 0.28 \text{ m}$$

Note : In this type of questions first convert all data into one unit.

103. (5) $\frac{36}{6} \times \sqrt{?} = 108$

or, $\sqrt{?} = \frac{108}{6}$

or, $\sqrt{?} = 18$

or, $? = 324 \approx 325$

104. (1) Ratio of their profits (Radha's : Sunidhi's : Neha's)

$$= 75 \times 36 : 125 \times 33 : 150 \times 27$$

$$= 3 \times 36 : 5 \times 33 : 6 \times 27$$

$$= 3 \times 12 : 5 \times 11 : 6 \times 9$$

$$= 36 : 55 : 54$$

[Note 1: We have used 1 year = 12 months.]

[Note 2: In compound partnership, the ratio of profits is directly proportional to both money and time.]

105. (4) Check all options one by one.

1) $\frac{75 \times 8}{6} = 100$

2) $\frac{98}{2.5} + (15.2 \times 4) = 100$

3) $(15 \times 8) - (5 \times 4) = 100$

4) $(76 \times 1.5) - (5.5 \times 2.6) = 99.7$

5) $(48 \times 1.2) + \frac{127.2}{3} = 100$

106. (4) The series follows the pattern:

$$4 \times 0.5 + 0.25 \times 1^2 = 2.25$$

$$2.25 \times 1 + 0.25 \times 2^2 = 3.25$$

$$3.25 \times 1.5 + 0.25 \times 3^2 = 7.125$$

$$7.125 \times 2 + 0.25 \times 4^2 = 18.25$$

$$18.25 \times 2.5 + 0.25 \times 5^2 = 51.875$$

Hence, the required answer

$$= 7 \times 0.5 + 0.25 \times 1^2 - 3.75 = a$$

$$3.75 \times 1 + 0.25 \times 2^2 = 4.75 = b$$

107. (1) The series is based on the pattern

$$\times 5 + 5^2, \times 4 + 4^2, \times 3 + 3^2, \times 2 + 2^2, \times 1 + 1^2.$$

Hence the required answer will be:

$$1 \times 5 + 5^2 = 30 (= a) \times 4 + 4^2 = 136 (= b) \times$$

$$3 + 3^2 = 417 (= c) \times 2 + 2^2 = 838$$

$$(= d) 838 \times 1 + 1^2 = 839.$$

[Note: In this type of series, observing from the right end will be beneficial; e.g. we see that the last element is greater by 1 to its preceding element. While the secondlast is greater by double +4 to its predecessor. In this way we can conclude the definite pattern.]

108. (3) The series follows the pattern:

$$+ 7 \times \frac{1}{2}, + 6 \times 2, + 5 \times \frac{1}{2}, + 4 \times 2 \dots$$

Now, the required answer is $(5+7) \times \frac{1}{2} = 6 (= a)$

$$(6+6) \times 2 = 24 (= b), (24+5) \times \frac{1}{2} = 14.5 (= c)$$

109. (2) The given series is $\times 1 + 1^2, \times 2 - 2^2,$

$$\times 3 + 3^2, \times 4 - 4^2, \times 5 + 5^2$$

Hence, the required answer

$$= 2 \times 1 + 1^2 = 3 (= a);$$

$$3 \times 2 - 2^2 = 2 (= b); 2 \times 3 + 3^2 = 15 (= c)$$

110. (5) The successive term is 6 more than the double of its preceding term. Hence required answer = $4 \times 2 + 6 = 14 (= a);$

$$14 \times 2 + 6 = 34 (= b); 34 \times 2 + 6 = 74 (= c);$$

$$74 \times 2 + 6 = 154 (= d)$$

111. (5) Here two data values are important; the speed of the boat (V_B) and that of water-flow (V_w). So, we must need two equations to find the value of any of them. So,

$$\text{From I: } V_B - V_w = \frac{48}{6} = 8 \quad \dots (i)$$

$$\text{From II: } V_B + V_w = \frac{48}{4} = 12 \quad \dots (ii)$$

Solving (i) and (ii), V_B can be determined.

[Note: In making equation, we have used the formula velocity = $\frac{\text{distance}}{\text{time}}$.]

112. (4) The population of state A for a given year is not given in any of the statements. Hence options 1, 2 and 3 can be rejected. When we start with statement I, we will get statement II. Hence no benefit.

113. (2)

From I: This is possible only when one digit is zero. So, there are so many possible answers, e.g. 10, 20, 30, ...

From II: This is possible only when one digit is 9 and another is zero (0). As the required no. is a two-digit no., 90 is the only solution.

114. (5) $I \Rightarrow M = 5S \dots (1)$

$$II \Rightarrow M - 5 = 25 (S - 5) \dots (2)$$

Solving the two equations, we get value of M. Thus both statements are required.

115. (4) **From I:** Let there be n children in the class. Then the age of the teacher = n years. Also assume average age of children = x years.

From II: Using I, we get

$$\frac{nx + n}{n+1} = x + 1$$

Hence, no answer can be determined.

116. (3) For equation I, the roots (a) will be 2, 3. As $-2 \times -3 = 6$ (ac) and $(-2) + (-3) = -5$ (b). Similarly, for eqn II, the roots (b) will be 2, 1.

117. (1): $2a + 3b = 31 \dots (i)$

$$3a - 2b = 1 \dots (ii)$$

Multiply (i) by 2 and (ii) by 3 then adding (i) and (ii), we get $a = \frac{65}{13} = 5.$

Putting the value of 'a' in any equation, we get $b = 7.$

Hence $b > a$ or $a < b.$

118. (1) 119. (2) 120. (5)

121. (4) Let the no. of children = x .

Hence, total no. of notebooks distributed

$$= \frac{1}{8} \cdot x \cdot x \text{ or } \frac{x^2}{8} \dots\dots\text{(i)}$$

In case II: no. of children = $\frac{x}{2}$

Now, the total no. of notebooks

$$= 16 \times \frac{x}{2} \dots\dots\text{(ii)}$$

Comparing (i) & (ii), we get

$$\frac{x^2}{8} = 8x \text{ or, } x = 64$$

Hence, total no. of notebooks

$$= \frac{64 \times 64}{8} = 512$$

122. (1) Let the positive integer be x .

$$\text{Now, } x^2 - 20x = 96$$

$$\text{or, } x^2 - 20x - 96 = 0$$

$$\text{or, } x^2 - 24x + 4x - 96 = 0$$

$$\text{or, } x(x - 24) + (x - 24) = 0$$

$$\text{or, } (x - 24)(x + 24) = 0$$

$$\text{or, } x = 24, -4$$

123. (2) The word ORGANIZE has 4 vowels and 4 consonants. Now both groups (vowels and consonants) can be treated as two letters. This can be arranged in $2!$ ways.

Now, the 4 letters of each group can be arranged in $4!$ ways.

So, total possible ways of arrangement

$$= 2! \times 4! \times 4!$$

$$= 2 \times 24 \times 24 = 1152.$$

124. (5) This is the problem of arithmetic progression (AP) with the first term (a) = 35, common difference (d) = 2 and total no. of terms (n) = 12. The sum of this series will be total distance travelled.

$$\text{Sum } (S_n) = \frac{n}{2} \{2a + (n - 1)d\}$$

$$= \frac{12}{2} \{70 + 11 \times 2\}$$

$$= \frac{12 \times 92}{2} = 552 \text{ kms}$$

125. (3) Let, in scheme A, Sridharan invest Rs. x .

Then, his investment in scheme B

$$= \text{Rs } (27000 - x).$$

Now,

$$x \left(1 + \frac{8}{100}\right)^2 + (27000 - x) \left(1 + \frac{9}{100}\right)^2 -$$

$$27000 = 4818.30$$

$$\text{or, } x(1.08)^2 + (27000 - x)(1.09)^2 = 31818.30$$

$$\text{or, } 1.1664x + 32078.7 - 1.1881x = 31818.30$$

$$\text{or, } 0.0217x = 260.4$$

$$\text{or, } x = \frac{260.4}{0.0217} = 12000$$

- 126-130: Total population = 35000

Total literate population

$$= \frac{35000 \times 70}{100} = 24500$$

$$\text{Total females} = \frac{35000 \times 44}{100} = 15400$$

$$\text{Total males} = (35000 - 15400) = 19600$$

$$\text{Total illiterate population} = 35000 - 24500 \\ = 10500$$

$$\text{Total female illiterate} = 10500 - 3920 = 6580$$

$$\text{Total male literate} = (19600 - 3920) = 15680$$

$$\text{Total female literate} = (15400 - 6580) = 8820$$

126. (2) $(6580 : 8820) = 47 : 63$

[140 is common in the ratio]

127. (4) $(15680 : 8820) = 16 : 9$

[$2 \times 7 \times 7 \times 10$ is common in the ratio]

128. (5) 19600

$$129. (1) \frac{15680 \times 5}{100} = 784$$

130. (3) Given in the information given above.

131. (2) Total no. of Medicine students = 13710

Total no. of Engineering students = 20440

Required percentage

$$= \left(\frac{13710}{20440} \times 100 \right) \approx \frac{13700}{20400} \times 100 = 67\%$$

132. (4) Total no. of Arts students over the year
 $= 16250$
 Total no. of years = 6
 \therefore Average no. of students studying Arts
 $= \left(\frac{16250}{6} \right) = 2708$

133. (3) In this type of questions we do not need to calculate the values for all the years. By simple comparison we can find out the solution; e.g.

For the first three years (1997, 1998, 1999), year 1999 has maximum percentage decrease from the previous year.

Now, consider one more year, i.e. year 2000. The difference between that no. of Commerce students for 1998 & 1999 is less than the difference between that for the years 1999 & 2000. Hence, till now year 2000 has maximum percentage increase. Similarly, we can proceed year by year.

[Note: For the same difference, or nearly same difference between two pairs of year, the percentage increment/decrement will be more for lesser base value.]

134. (1) Required percent

$$= \frac{1120}{(3050 + 2850 + 4550 + 2640 + 3650)} \times 100 \\ = 6.69\%$$

135. (5) Required percent

$$= \frac{3080 \times 100}{(3200 + 3500 + 2850 + 3640 + 3080 + 3800)} = 20070 \\ = 15.34 \approx 15\%$$

136-140: As the formula is given in the question, we should follow it to find the solution.

136. (5) The percentage profit of company 'A' in 1998 = 50%

Income = 142500 (given)

$$\text{Expenditure} = 142500 \left(\frac{100}{100 + 50} \right) \\ = 95000$$

137. (4) $E_{B99} = \frac{90}{100} E_{B98}$ (given)

$$I_{B99} \left(\frac{100}{140} \right) = \frac{90}{100} I_{B98} \left(\frac{100}{135} \right)$$

$$I_{B99} = \frac{90}{100} \times \frac{140}{100} \times \frac{100}{135} (I_{B98})$$

$$I_{B99} = \frac{280}{300} I_{B98}$$

$$= \frac{280}{3} \% \text{ of } I_{B98} = 93\frac{1}{3} \% \text{ of } I_{B98}$$

138. (3) $E_{A97} = \text{Rs } 70 \text{ lakh}$

$$\Rightarrow I_{A97} = 70 \left(\frac{125}{100} \right) = \text{Rs } 87.5 \text{ lakh}$$

$$\text{or, } I_{A98} = 87.5 \left(\frac{150}{100} \right) =$$

$$I_{A97} = E_{A98} = \text{Rs } 87.5 \text{ lakh}$$

$$\therefore I_{A98} = 87.5 \left(\frac{150}{100} \right) = \text{Rs } 131.25 \text{ lakh}$$

$$\therefore \text{Required value} = I_{A97} + I_{A98} \\ = 87.5 + 131.25 = \text{Rs } 218.75 \text{ lakh}$$

139. (1) We have to find $I_{B96} : I_{B97}$

Given $E_{B96} = 5x$ and $E_{B97} = 7x$

$$\therefore I_{B96} = 5x \left(\frac{140}{100} \right) \text{ and } I_{B97} = 7x \left(\frac{130}{100} \right)$$

$$\therefore I_{B96} : I_{B97} = \frac{5x}{7x} \left(\frac{140}{130} \right) = 10 : 13$$

140. (4)

141. (3) Total marks obtained by A in Psychology and Statistics together

$$= \left(\frac{72 \times 150}{100} + \frac{88 \times 125}{100} \right) 108 + 110 = 218$$

Total marks obtained by F in these two

$$\text{subjects} = \left(\frac{84 \times 150}{100} + \frac{82 \times 125}{100} \right) 126+ \\ = 228.5$$

$$\therefore \text{Difference} = (228.5 - 218) 10.5$$

142. (4) Average percent of marks obtained by 6 students in Sociology

$$= \frac{(65 + 58 + 73 + 65 + 55 + 70)386}{6}$$

$$= 64 \frac{1}{3}$$

143. (2) Average marks obtained by 6 students in Philosophy out of 75

$$\left\{ \frac{(65 + 70 + 57 + 61 + 76 + 78)407}{6} \times \frac{75}{100} \right\} = 50.875$$

144. (1) Required answer

$$= \left(\frac{72 \times 150}{100} + \frac{85 \times 80}{100} + \frac{72 \times 60}{100} \right)$$

$$108 + 68 + 43.2 = 219.2$$

145. (5) Percentage of marks obtained by C in all the subjects together

$$= \frac{(63\% \text{ of } 150) + (73\% \text{ of } 120) + \dots (65\% \text{ of } 60)}{150 + 120 + \dots + 60} \times 100$$

$$= \frac{404}{610} \times 100 = 66\%$$

146. (4) $= \frac{(110 + 60 + 110 + 100 + 105 + 85)570}{6}$

$$= 95 \text{ lakh tons.}$$

[Note: The data can be easily found out using black bars from the given graph.]

147. (3) Average production of units A, B and C in 2001 (use white bars)

$$= \frac{(90 + 75 + 100)265}{3}$$

Average production of units D, E & F in 2002

$$= \frac{(100 + 105 + 85)290}{3}$$

$$\therefore \text{Required answer} = \frac{265 \times 3}{3 \times 290} \times 100 = 91.38$$

148. (5) Total production by unit B in 2001 and 2002 together

$$= (75 + 60) 135 \text{ lakh tons}$$

Total production by unit C in 2001 and 2002 together

$$= (100 + 110) 210 \text{ lakh tons}$$

$$\therefore \text{Required ratio} = (135 : 210) = 9 : 14$$

149. (1) Total production by unit F in the year 2001 and 2002 together

$$= (70 + 85) 155 \text{ lakh tons.}$$

Total production by unit D in the year 2001 and 2002 together

$$= (95 + 100) = 195 \text{ lakh tons.}$$

$$\therefore \text{Required percentage} = \left(\frac{155}{195} \times 100 \right)$$

$$79.487 = 79.49$$

150. (2) Required total production $= (100 + 110 + 95 + 100 + 85 + 105) 595 \text{ lakh tons.}$

TEST OF REASONING

151. (3) Here letters are: B, R, E, A and K. When the consonants are replaced by the next words, these words are as follows.

1. SCALE 2. LACES.

152. (5) The given numbers can be written as follows:

$$143 = 12^2 - 1; 63 = 8^2 - 1; 195 = 14^2 - 1; \\ 15 = 4^2 - 1$$

$$\text{But, } 257 = 16^2 + 1$$

Obviously, except 257, others can be written in the form $x^2 - 1$.

153. (3) ORIENTAL

154. (5)

Letter	#	★	●	+	%	+	\$
Code	C	H	A	I	R	D	E

Therefore, code for DEAR = +\$ ● %

155. (3)

$$\begin{array}{ccccccccc} A & R & O & M & A & T & I & C \\ +1 & -1 & +1 & -1 & +1 & -1 & +1 & -1 \\ B & Q & P & L & B & S & J & B \end{array}$$

Similarly,

$$\begin{array}{cccccc} B & R & A & I & N \\ +1 & -1 & +1 & -1 & +1 \\ C & Q & B & H & O \end{array}$$

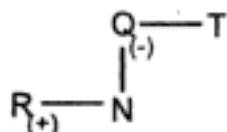
156. (5) Except it others are either followed or preceded by a month of 31 days.

157. (4) After interchanging, the order of the letters in the word becomes as follows.

S G N I K R O W

158. (2) The specified digits are 8, 2 and 9. Now, we know a perfect square number does not have 8 and 2 at unit's place. Therefore, we can make only two three-digit numbers from it, i.e., 829 and 289. Among these two numbers, 289 is a perfect square number, i.e., square of 17. Thus, units digit is 7 and ten's digit is 1.

159. (1) If R is nephew of T then the required equation must depict R as a male. Reject 2 and 3 because in these equations the symbol '-' denotes the sex of Q and N respectively. The sex of R remains unknown. Reject 4 and 5 because these equations depict R older than T. Now, check 1



Obviously, R is the nephew of T.

160. (2) $R + N - Q \times T$ is the required equation to answer the previous question. Here the used symbols are '+', '-' and 'x'. Therefore, redundant part of the symbols given in the direction is statement (i).

161. (4) The first is made from the second.

162. (5) Others are wild animals.

163. (2) A sapling is young tree. Similarly, a foal is a young horse.

164. (5) The colour of human blood is red. Here white means red. Therefore, white is our answer.

Do not opt for black because red means black implies that black is called red.

165. (3) Others are the products made from milk.

166. (4) For the number 938752 neither condition I nor condition II is applicable. Therefore, write down the respective codes of 9, 3, 8, 7, 5 and 2 from the chart given. Thus the required code of 938752 is MTVWFP.

167. (1) For the number 372581 replace '3' and '1' with 'Z' because these two digits (1 and 3) are odd numbers. Write down the codes of the remaining digits from the given chart. Thus, the required code of 372581 is ZWPVZ.

168. (3) KTBFMW

169. (5) ARTWPA

170. (2) WVMTFD

171. (2) Statement (a) + Statement (b) gives conclusion "All benches are flowers" $[\because A + A = A]$ – on conversion \rightarrow "Some flowers are benches". Hence, conclusion IV follows. Again, "All benches are flowers" + "All flowers are fruits" gives conclusion "All benches are fruits". Hence, I does not follow. Statement (b) + Statement (c) gives conclusion II $[\because A + A = A]$. Conclusion III follows from Statement (c) [on conversion].

172. (3) Statement (a) + Statement (b) gives no conclusion $[\because I + I = \text{no conclusion}]$. Therefore, conclusions II and III do not follow. But these two conclusions make complementary pair of IE-type. Therefore, either conclusion II or conclusion III follows. Since statement (a) + Statement (b) gives no conclusion therefore "train" and "tiger" can't be related. Hence, conclusion I does not follow. "All tigers are waters" \rightarrow on conversion \rightarrow "Some waters are tigers". Hence, conclusion IV does not follow.

173. (4) Statement (a) + Statement (b) gives conclusion "Some buses are mountains" $[\because I + A = I]$ \rightarrow on conversion \rightarrow "Some mountains are buses". Hence, conclusion I follows. Again, Some buses are mountains + Some mountains are roads gives no conclusion. $[\because I + I = \text{no conclusion}]$. Hence, conclusion II does not follow. Again, Statement (b) + "Some mountains are roads" gives no conclusion. $[\because A + 1 = \text{no conclusion}]$. Hence, conclusion III does not follow. Conclusion IV follows from conversion of Statement (c).

- 174. (5)** Only II and IV follow. Statement (a) + Statement (b) gives no conclusion [$\because A + I = \text{no conclusion}$]. Therefore, conclusion I does not follow. Again, Statement (b) + Statement (c) gives the conclusion "Some jungles are elephants" [$\because I + A = I$] \rightarrow on conversion \rightarrow "Some elephants are jungles". Hence, conclusion II follows. Conclusion III does not follow because Statement (a) + Statement (b) gives no conclusion. Again, "All rabbits are elephants" gives conclusion IV [on conversion].
- 175. (1)** Statement (a) + Statement (b) gives the conclusion "No books are houses" [$\because A + E = E$]. Hence, conclusion I follows but conclusion IV does not follow. Again, "No books are houses" + Statement (c) gives the conclusion "Some doors are not books" [$\because E + A = O$]. Hence, conclusion II does not follow. Again, Statement (b) + Statement (c) gives the conclusion "Some doors are not pens" [$\because E + A = O$]. Hence, Conclusion III does not follow.
- 176. (3)** $M > R \dots (i)$ $R \leq T \dots (ii)$; $T = N \dots (iii)$
 Combining (ii) and (iii), we get
 $T = N \geq R \Rightarrow N > R$ (conclusion I) or
 $N = R$ (conclusion II)
- 177. (1)** $D = K \dots (i)$; $K \geq F \dots (ii)$; $H < F \dots (iii)$
 Combining all, we get
 $D = K \geq F > H \Rightarrow D > H$ and $D \geq F$.
 Hence, conclusion I ($H < D$) is true but conclusion II ($D > F$) is not necessarily true.
- 178. (4)** $J \leq V \dots (i)$; $V < T \dots (ii)$; $T > R \dots (iii)$
 Combining (i) and (ii), we get
 $T > V \geq J \dots (iv)$
 From (iii) and (iv) we do not get any specific relation between R and J. Hence, neither conclusion I nor conclusion II is necessarily true.
- 179. (2)** $K = W \dots (i)$; $B \leq W \dots (ii)$; $N < B \dots (iii)$
 Combining all, we get
 $K = W \geq B > N \Rightarrow K > N$
 $\Rightarrow N < K$ (conclusion II)
 Hence, conclusion I is not true but conclusion II is true.
- 180. (1)** $R > E \dots (i)$; $D = E \dots (ii)$; $M \geq D \dots (iii)$
 Combining (i) and (ii), we get
 $R > E = D \Rightarrow R > D$ and $R > E$
 $\Rightarrow D > R$ (Conclusion I) and $E < R$.
 Hence, conclusion I is true but conclusion II is not true.
- 181. (1)** The decision taken by the government implies that the government must be assuming I. Note that no organisation / government / person takes decision to compensate the victim unless it assumes that it has adequate fund to satisfy the expenses. II can't be correlated. Hence, II is not implicit.
- 182. (1)** Why has the suspension of flights been made for a limited period of four days? It must have been assumed by the authorities of X - Airlines that the crisis may be over after this limited period. Hence, assumption I is implicit. II may or may not be an assumption. Hence, II is not implicit.
- 183. (2)** Request made by civic authorities to the citizens implies that the authorities must be assuming that the citizens will respond positively. Now look at assumption I. It may or may not be an assumption because the way of responding by the citizens may not necessarily be the same as mentioned in the assumption.
 Hence, assumption I is not implicit. Again request made by the authorities implies that the authorities must be assuming that their effort will reduce the problem of power theft. Now, how can they assume this? Obviously, II is an assumption.

184. (5) Why did PTA take such a harsh decision? They must be assuming that its decision may compel the Principal to reconsider the school fees. Hence, assumption II is implicit. Again, how can the decision usher such result? Obviously, PTA must be assuming that parents of the students will cooperate. Hence, assumption I is also implicit.
185. (2) Assumption I can't be correlated with the statement. Hence, assumption I is not implicit. Now, why did the authority go for the advertisement? Obviously, II must be assumed. Hence, only II is implicit.
186. (1) I is strong because it will save people from unnecessary inconvenience. II is not strong because it is not true. There are other ways also to control the dreaded disease.
187. (1) I is strong because higher rates attract people to deposit money for longer duration. If there be only one rate of interest for term deposits for varying durations, this will adversely affect deposit of money in bank for longer duration and also the liquidity levels of banks. II is not strong because only one rate of interest does not imply an encouragement for more savings.
188. (5) I is strong because it will make the election process more meaningful and purposeful. II is strong on account of the tenets of democracy.
189. (5) I is strong because mass murderers must be treated with stringent punishment. It is also strong because it is judicious to eliminate evils, not evildoers, from the society.
190. (1) I is strong on the basis of Constitutional right. II is not true. Hence, it is a weak argument.
191. (4) We have to look for Vowel-Number and Number-Vowel sequences.
- J 1 # P 4 E K 3 A D \$ R U M 9 N 5 I % T
V * H 2 + F 6 G 8 Q W
- 4, 3 and 5 are the required numbers.
192. (4)

D \$ R U M 9 N 5 1 % T V * H 2

7 elements 7 elements

193. (1) After the changing, the series becomes as follows:

J 1 # P 4 E K 3 A D \$ R U M 9 N W Q 8
G 6 F + 2 H * V T % I 5

Now ninth to the right of the eleventh element from the left $\Rightarrow (11 + 9 =)$ 20th element from the left, i.e., G.

194. (2) We have to look for Symbol - Consonant - Consonant sequence and Symbol - Consonant - Symbol sequences.

J 1 # P 4 E K 3 A D \$ R U M 9 N 5 I % T
V H 2 + F 6 G 8 Q W

Only T is such a consonant.

195. (5) See the difference between each two successive element.

- 1) A +2 \$ -5 E
- 2) % +2 V -5 N
- 3) 2 +2 F -5 V
- 4) 4 +2 K -5 I
- 5) 6 +3 Q -5 +

Note that the difference between two successive elements in 5) is not similar to others.

- 196 - 200: Let us arrange the name of the persons according to descending order of the heights of the persons.

From clues IV and III, we get

R > T > Q > Z > V > S > W > P

Now let us arrange the persons and their games.

	Criket	Badmin ton	Hockey
P	x	x	✓
Q	✓	x	x
R	✓	x	x
S	x	✓	x
T	x	x	✓
V	✓	x	x
W	x	✓	x
Z	x	✓	x

196. (3) 197. (5) 198. (5) PT

199. (2) 200. (2) 201. (3)

From I: If there are sixteen students towards left of Sunil then Sunil is at $(16 + 1 =)$ 17th position from the left end and $(40 - 17 + 1 =)$ 24th position from the right end.

From II: If there are twenty-three students towards right of Sunil then Sunil is at $(23 + 1 =)$ 24th position from the right end and $(40 - 24 + 1 =)$ 17th position from the left end.

202. (5)

From I: Varun's birthday may be 16th, 17th, or 18th April.

From II: Varun's birthday may be 13th, 14th, 15th or 16th April.

From I and II: Varun's birthday is on 16th April.

203. (4) We do not know whether the codes of the given words are in the same order as the order of the words. Therefore, STATEMENT I alone is not sufficient. Again, STATEMENT II does not consist of the word 'go'. Hence, Statement II alone is not sufficient. Even statements I and II together give the code for 'may' only.

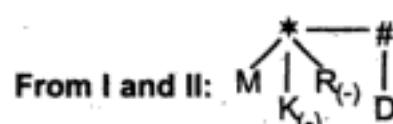
204. (5)

From I: K and R are sisters of M.

From II:

II:

*(Father of K) — #(Mother of D)



Thus, D is the cousin of M

205. (4) **From I:** J > R > T or K

From II: Atleast one person is heavier than J.

From I and II: We get

M > J > R > T or K

Hence, both the statements I and II together are insufficient to answer who among T or K is the lightest.

206. (2) Both 'Potato' and 'Cabbage' are vegetables.

207. (5) 'Iron' is an example of metal whereas 'Chlorine' is an example of non-metal.

208. (3) 209. (3) 210. (3)

211 - 220:

Sl. No.	i/(a)	ii/ (b)	iii	iv	Answer
211	✓	✓	✓	✓	4
212	✓	(✓)	✓	✓	2
213	(✓)	✓	✓	-	5
214	✓	✓	-	✓	5
215	✓	✗	✓	✓	1
216	✓	(✓)	✗	✓	1
217	(✓)	✓	✓	✓	3
218	✓	✓	✓	✓	4
219	✓	✓	✗	✓	1
220	✓	✓	✓	✗	1

221. (2) The passage does not say anything about last year's economy growth rate. But the sentences "If the agriculture sectorquality of life" make the inference probably true.

222. (1) That is why protection is being sought for some industries like village industry.

223. (2) To adopt liberalisation as a measure for reforms make the inference probably true.

224. (5) See the sentence. "This prospects... commerce and trade". This sentence implies that contribution of commerce and trade is also necessary for the growth of economy of this year.

225. (1) See the sentence: "If the agriculture sector... 6 - 7 percent."

PROBATIONARY OFFICERS' EXAM. (DENA BANK)

Original Question Paper – Exam. Held on 03-08-2003

GENERAL AWARENESS

1. Irina Lashko representing Australia at the recently held world swimming championships won gold medal in which of the following event?
 - 1) 100 meters backstroke event
 - 2) 100 meters breaststroke event
 - 3) 100 x 4 meters relay
 - 4) 1 meter spring board diving event
 - 5) None of these
2. Irina Lashko represented Australia at a world swimming championship belong to which of the following country?
 - 1) Russia 2) France
 - 3) China 4) Germany
 - 5) None of these
3. Who has been appointed as a new executive editor of 'New York Times' in the month of July 2003?
 - 1) Howell Raines
 - 2) Bill Keller
 - 3) Gerald Boyd
 - 4) Joseph Lelyveld
 - 5) None of these
4. The purchasing power of Rupee strengthened against dollar in recent past because:
 - 1) the interest rates in India are among the highest in the world
 - 2) there has been a strong flow of foreign direct investment into India
 - 3) there has been steady growth of Indian exports
 - 4) weakening of US currency because of poor economic recovery in US
 - 5) All of these
5. The Center for Monitoring the Indian Economy (CMIE) has estimated the growth rate for Indian Economy for 2003-2004 as:
 - 1) 5%
 - 2) 6%
 - 3) 6.5%
 - 4) 7%
 - 5) None of these
6. Mr. Dilish Parekh an Indian gained fame by entering the Guinness Book of world records for:
 - 1) possessing rare collection of antique cameras
 - 2) running backwards 50 kms in 3 hours
 - 3) crossing the English channel for record number of 11 times
 - 4) making 596 push-ups in one hour
 - 5) None of these
7. Ms. Palak Muchhal has gained entry into Guinness Book of world records and was in new for:
 - A. being the youngest child singer
 - B. being awarded the "Rashtriya Bal Puraskar"
 - C. being honoured with "Rashtriya Samanway Puraskar"
 - 1) A only
 - 2) A and B
 - 3) A and C
 - 4) A, B and C
 - 5) B and C
8. Ms. Bobby Aloysious has won gold medal for high jump in which of the following event?
 - 1) British Athletics League Golden Jubilee Cup in Bedford, U.K.
 - 2) World championship meet in Denis, Paris
 - 3) Loughboroug International meet, England
 - 4) British Super League Athletics meet in Manchester
 - 5) None of these

- 9. Jaspal Singh featured in the Guinness Book of world records recently for which of the following?**
- Scored all the seven goals against New Zealand in hockey in the recently held match
 - Made world's smallest chess board of 6 mm of 64 separate parts
 - Made world's smallest carrom board of 6 mm of 4 separate parts
- A only
 - B only
 - C only
 - A and B
 - B & C
- 10. Ana Lúiza dos Anjos was in news because:**
- she climbed Mount Everest in record time
 - she was one of the member astronaut on the Columbus flight
 - she is the youngest woman to swim across English Channel
 - she has criminal past record but have become Brazil's best long distance runner
 - None of these
- 11. Golden Leopard award is given in the field of:**
- Literature
 - Film
 - Architecture
 - Medicine
 - None of these
- 12. Kiran Kher has won the best actress award for her role in which of the film?**
- Khamosh
 - Khamoshi
 - Khamosh Pani
 - Devdas
 - None of these
- 13. Dr. Peter Safar is known world over because:**
- he is credited with establishing the first physician staffed, multi-dimensional ICU in U.S.
 - he is credited to have taught a life-saving technique to everyone from surgeons to boy scouts
 - he is credited to have developed a method of mouth to mouth resuscitation
 - All of these
 - None of these
- 14. Who among the following has become formula one's youngest race winner in the Hungarian Grand Prix?**
- Monotoya J.P.
 - Fernando Alonso
 - Ralph Schumacher
 - Chandrika
 - None of these
- 15. Who among the following were awarded the Rajiv Gandhi Khel Ratna Award?**
- Anjali Bhagwat
 - K.M. Beenamol
 - Virendra Shewag
 - Baichung Bhutia
- Only A & C
 - Only C & D
 - Only A, B & C
 - Only A
 - None of these
- 16. Who among the following has become the first Indian to win a medal at the 9th IAAF World Championships held recently?**
- Anju Bobby George
 - P. T. Usha
 - Shiny Abraham Wilson
 - K.M. Beenamol
 - None of these
- 17. Which of the following tennis champions announced his retirement from tennis recently?**
- Andre Agassi
 - Jim Courier
 - Andy Roddick
 - Pete Sampras
 - None of these
- 18. Which of the following person—sport combination is incorrect?**
- Yasin Merchant—Snooker
 - Baichung Bhutia—Football
 - Narain Karthikeyan—Racing
 - Gagan Ajit Singh—Athletics
 - None of these
- 19. Which of the following cricketer's bat will be put up for auction in Bowral, New South Wales on October 19th and is expected to fetch around Rs. 4.8 lakh?**
- Sachin Tendulkar
 - Don Bradman
 - Garfield Sobers
 - Len Hutton
 - None of these
- 20. Who is the author of the recently released book "Heroes of 100 Tests"?**
- Kersi Meher—Homji
 - Harsha Bhogle
 - Sunil Gavaskar
 - Clive Lloyd
 - None of these

- 21. Among which of the following countries was the final hockey match during the 25th Champions Trophy played?**
- 1) Germany—Australia
 - 2) Argentina—Pakistan
 - 3) Australia—India
 - 4) Australia—Netherlands
 - 5) None of these
- 22. Which of the following Indian Star players was suspected of having brain tumor recently but now the doctors have ruled out malignancy?**
- 1) Leander Paes
 - 2) Jugraj Singh
 - 3) Mahesh Bhupathi
 - 4) Ramesh Krishnan
 - 5) None of these
- 23. In which year were the first modern Olympics held in Athens?**
- 1) 1896
 - 2) 1904
 - 3) 1912
 - 4) 1920
 - 5) None of these
- 24. Who among the following has written the biography of her husband who is one of the superstar of Indian cinema?**
- 1) Hema Malini
 - 2) Dimple Kapadia
 - 3) Jaya Bachchan
 - 4) Priya Anand
 - 5) None of these
- 25. A foreign tourist wants to visit India's famous forts. Which of the following group of cities will you suggest him to visit?**
- 1) Nainital, Manali & Shimla
 - 2) Panaji, Thiruvananthapuram & Daman
 - 3) Puri, Kolkata & New Delhi
 - 4) Agra, Jaipur & Gwalior
 - 5) None of these
- 26. Who among the following if given a choice would most likely prefer to take a salt free diet?**
- 1) The one who has just undergone a byepass surgery
 - 2) The one who is highly diabetic
 - 3) The one who is put on a weight loss schedule
 - 4) The one who is suffering from insomnia
 - 5) None of these
- 27. Which of the books has been authored by Richard Russo?**
- 1) Empire Falls
 - 2) Cry the Peacock
 - 3) My Feudal Lord
 - 4) The Asian Drama
 - 5) None of these
- 28. Which part of Indonesia became a new independent nation and a member of UNO?**
- 1) West Timor
 - 2) East Timor
 - 3) Central Timor
 - 4) Taipah
 - 5) None of these
- 29. Which among the following South American countries threw out its President in a coup?**
- 1) Chile
 - 2) Argentina
 - 3) Venezuela
 - 4) Columbia
 - 5) None of these
- 30. The Tata group of industries has taken over which of the following Internet service provider?**
- 1) MTNL
 - 2) Roltanet
 - 3) VSNL
 - 4) Satyam on-line
 - 5) None of these
- 31. The survey of Economic Times has rated Hyderabad as:**
- 1) highly polluted city
 - 2) cheapest city in India to live in
 - 3) most suitable city for foreign investment
 - 4) the city with highest population density
 - 5) None of these
- 32. To converse with a person which of the following is cheapest at present?**
- 1) Land-line phones
 - 2) Cell phones
 - 3) Wireless on Local Loops (WLL)
 - 4) Net telephony
 - 5) None of these

- 33. To combat the menace of money laundering, which of the following financial institutions has introduced the 'Know Your Customer' Scheme?**
- IDBI
 - RBI
 - NABARD
 - SIDBI
 - None of these
- 34. As per World Bank Report, which of the following countries is the top largest economy?**
- India
 - Japan
 - China
 - U.S.A.
 - U.K.
- 35. Which of the following countries did not support the stand of U.S.A. while invading Iraq?**
- | | |
|------------------|------------|
| 1) U.K. | 2) Germany |
| 3) Pakistan | 4) Kuwait |
| 5) None of these | |
- 36. Following a dispute over the distribution of petrol pumps, LPG distributions and Kerosene dealership, all the allotments belonging to which of the following periods got cancelled?**
- | | |
|------------------|--------------|
| 1) 1995-1999 | 2) 1998-2000 |
| 3) 2000-2002 | 4) 2001-2002 |
| 5) None of these | |
- 37. All members of the election commission led by the Chief Election Commissioner visited which of the following States in August 2002 so that they can take decision to announce Assembly election there?**
- | | |
|--------------------|------------------|
| 1) Jammu & Kashmir | 2) Uttar Pradesh |
| 3) Bihar | 4) Gujarat |
| 5) None of these | |
- 38. Which of the following statements is NOT TRUE about the 'Asian Brown Cloud', a project report which was in news recently?**
- The report is prepared by an agency of the United Nations Organisation
 - The report says that impact of vast pollution clouds has damaged the weather system and monsoon pattern
- C. The Government of India has accepted the report and has taken steps to protect the system from further damages**
- Only A
 - Only B
 - Only C
 - Only A & C
 - Only B & C
- 39. As per the reports published in print media, the revenue collection may miss budget targets in current year also. Which of the following is the target fixed in terms of the per cent of GDP?**
- | | |
|----------|---------|
| 1) 3% | 2) 4% |
| 3) 4.5% | 4) 5.3% |
| 5) 6.33% | |
- 40. As per present norms, the Mergers and Acquisitions in the corporate sector need a clearance from which of the following in addition to RBI etc.?**
- High courts of the respective States
 - Union Cabinet
 - Cabinet of respective States
- A & B both
 - Only B
 - Only C
 - Only A
 - None of these
- 41. The 'Arria Formula' which was recently in news is:**
- an informal arrangement at the U.N. Security Council under which members can seek briefings on various issues concerning international peace and security.
 - a formula suggested by the Mexico to solve Kashmir problem with the help of some third party mediation.
 - the solution provided by some countries to overcome the problems created by the new policies of the WTO.
 - the agreement made by the member countries of EURO club to overcome the problems created by the introduction of fully convertible EURO currency from 1st January 2002.
 - None of these

- 42. RBI has recently issued following instructions in respect of exchange control of goods and services export. Which of these is NOT CORRECT?**
- 1) Export of Indian currency upto Rs. 10,000 is free, without exchange control
 - 2) Direct despatch of documents is allowed in case of status exporters
 - 3) All SEZ units are treated as status holder for extension of normal six months period
 - 4) Information must be sent to RBI by the forex dealer once in six months
 - 5) Consultancy exporters can keep the entire foreign exchange earnings in their account
- 43. Which of the following is considered as financial derivatives?**
- 1) These are risk shifting devices, which hedge the risk of owning assets that are subject to unexpected price fluctuations
 - 2) Extension of loans to retail banking segments
 - 3) Cross-border currency swap
 - 4) Forward contracts
 - 5) None of these
- 44. With the development of I.T. and Internet, banks can aim at meeting the expectation of the customers by adopting a strategy that is commonly known as CRM. Expand the term CRM.**
- 1) Critical Relations Management
 - 2) Customer Relationship Management
 - 3) Customer Review Management
 - 4) Critical Review Management
 - 5) Credit Review Management
- 45. A contract which represents the obligation to buy or sell at a specified date in the future is known as:**
- 1) Options 2) Forward contracts
 - 3) Futures
 - 4) Swap
 - 5) None of these
- 46. Why was 'Busan' In South Korea was recently in news?**
- 1) The place was in news as a serious plane accident during an airshow took place there. Several spectators died.
- 47. The final round on the talks between South and North Korea took place there and both the countries decided to remain independently as merger is not possible.**
- 3) The place is the venue of next Earth Summit due in January 2003.
 - 4) Busan now is the new capital of South Korea.
 - 5) 14th Asian Games were organised there.
- 48. Which of the following is NOT the part of Export-Import policy 2002-2007 of India?**
- 1) Annual Advance Licence facility is extended for deemed exports.
 - 2) Validity of duty free replenishment certificate scheme extended from 12 to 18 months.
 - 3) Second hand capital goods which are less than 10 years old are allowed to be imported without obtaining licence.
 - 4) Special Exports Economic Zones (SEZs) developers will not be given any special status now under Income Tax Act. The act is to bring SEZs at par with other business activities.
 - 5) Exporters are not allowed to carry gems and jewellery of an amount more than 2 million US \$ for overseas exhibitions.
- 49. The GDP growth in the financial year 2002 was recorded as:**
- 1) 4% 2) 4.5%
 - 3) 5% 4) 5.4%
 - 5) 6.33%
- 50. As per existing rules all the mutual funds except one are under the regulation of SEBI. The only exception is:**
- 1) SBI Mutual Fund
 - 2) UTI Mutual Fund
 - 3) BOB Mutual Fund
 - 4) LIC Mutual Fund
 - 5) None of these
- 51. The number of Credit Card holders in India is approximately what per cent of the population?**
- 1) 0.4% 2) 0.9%
 - 3) 1.5% 4) 2.25%
 - 5) 3%

ENGLISH LANGUAGE

(Directions: Qns. 51-60) In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Even before the commencement of the age of metal, large human (51) were seen at many places. The development of agriculture had (52) the way for settled life. Agriculture gave rise to many (53) professions and vocations. Society (54) to be organized into various classes. The concept of private property and trade started (55) ground. Out of the (56) to protect life and property and to (57) social life, (58) the idea of public administration. Large human settlements (59) with such administrative machinery generally (60) in the valleys of the major rivers and are known as the 'river valley civilization.'

- | | |
|-------------------|----------------|
| 51. 1) potential | 2) groups |
| 3) habitations | 4) nourishment |
| 5) individuals | |
| 52. 1) nurtured | 2) developed |
| 3) directed | 4) pictured |
| 5) paved | |
| 53. 1) allied | 2) peculiar |
| 3) old | 4) durable |
| 5) strong | |
| 54. 1) flourished | 2) came |
| 3) involved | 4) established |
| 5) stabilized | |
| 55. 1) evolving | 2) expressing |
| 3) founding | 4) gaining |
| 5) emerging | |
| 56. 1) claim | 2) allusion |
| 3) exposure | 4) need |
| 5) attachment | |
| 57. 1) adjust | 2) regulate |
| 3) engulf | 4) advocate |
| 5) command | |
| 58. 1) questioned | 2) demarcated |
| 3) enlarged | 4) settled |
| 5) arose | |

- | | |
|------------------|---------------|
| 59. 1) equipped | 2) acquainted |
| 3) beset | 4) invested |
| 5) satiated | |
| 60. 1) polarized | 2) cultivated |
| 3) developed | 4) absorbed |
| 5) provided | |

(Directions: Qns. 61-70) Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.

- | | | |
|---|-------------------|-----------------|
| 61. The teacher ----- at the boy making the noise. | 1) rebuked | 2) grumbled |
| | 3) ridiculed | 4) annoyed |
| | 5) frowned | |
| 62. We must ----- help to the people dying of hunger. | 1) commit | 2) reluctantly |
| | 3) render | 4) surrender |
| | 5) contribute | |
| 63. It was during the third century B.C. that Ashoka ----- the Mouryan throne. | 1) ascended | 2) attacked |
| | 3) ceased | 4) descended |
| | 5) oppressed | |
| 64. Everyone at the table stood up and ----- the success of the new company. | 1) demanded | 2) commanded |
| | 3) prayed | 4) pledged |
| | 5) committed | |
| 65. Lawlessness is ----- with civilization. | 1) insurmountable | 2) incompatible |
| | 3) irrevocable | 4) inadvertent |
| | 5) unpardonable | |
| 66. He is still ----- over the financial loss in which he was involved last year. | 1) grieving | 2) haunting |
| | 3) calculating | 4) prevailing |
| | 5) counting | |
| 67. The fox succeeded in ----- the hunters by running back in the opposite direction. | 1) involving | 2) absconding |
| | 3) hiding | 4) eluding |
| | 5) obstructing | |

68. Your behaviour is not ----- with your social rank.
 1) cogent 2) congruous
 3) conscientious 4) conducive
 5) content
69. It took her a long time to get ----- the death of her husband.
 1) on 2) out
 3) away 4) down
 5) over
70. Travel will ----- you with new customs.
 1) expose 2) endow
 3) acquaint 4) facilitate
 5) acquire

(Directions: Qns. 71-80) Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is '5'. (Ignore errors of punctuation, if any).

71. I was glad (1)/ when I learnt that (2)/ he has been coming to Delhi (3)/ the following week.(4)/ No error.(5)
72. Unless you do not write clearly (1)/ your teacher (2)/ will not be able (3)/ to read your answers.(4)/ No error.(5)
73. The players cried out (1)/ with joy that (2)/ they had won (3)/ the crucial match.(4)/ No error.(5)
74. As soon as (1)/ the fireman came out (2)/ of the house (3)/ than the roof collapsed.(4)/ No error.(5)
75. The father told (1)/ to Mohan that (2)/ he had failed (3)/ in the examination.(4)/ No error.(5)
76. He was the man (1)/ whom they determined (2)/ should be the (3)/ next Chairman.(4)/ No error.(5)
77. No sooner did (1)/ I enter the office, (2)/ when I saw (3)/ my boss going out.(4)/ No error.(5)
78. Govind and Gopal are (1)/ both excellent writers, (2)/ but I prefer (3)/ the last.(4)/ No error.(5)

79. The wording and meaning (1)/ in this example (2)/ is ambiguous (3)/ all the way.(4)/ No error.(5)
80. Of all the men I know (1)/ he is the least inclined (2)/ to believe (3)/ ill of others.(4)/ No error.(5)

(Directions: Qns. 81-85) Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- A. He creates religion and codes of ethics so that he can live happily in society.
 B. He constantly strives to make his life happy and to enrich it.
 C. All these things created by man are included in the term 'culture'.
 D. He is also a creative animal.
 E. Out of this desire, he creates art and literature and preserves them.
 F. Man is a thinking animal.

81. Which of the following will be the FIRST sentence?
 1) A 2) C
 3) D 4) E
 5) F
82. Which of the following will be the SECOND sentence?
 1) A 2) B
 3) C 4) D
 5) E
83. Which of the following will be the THIRD sentence?
 1) F 2) B
 3) E 4) C
 5) D
84. Which of the following will be the FIFTH sentence?
 1) A 2) C
 3) B 4) D
 5) F
85. Which of the following will be the LAST sentence?
 1) B 2) D
 3) C 4) A
 5) E

(Directions: Qns. 86-90) In each of the following questions four words are given; of which two words are most nearly the same or opposite in meaning. Find the two words which are most nearly the same or opposite in meaning and indicate the number of the correct letter combination, by darkening the appropriate oval in your answersheet.

- | | |
|---------------------|---------------|
| 86. A) Ailing | B) Pessimist |
| C) Indispensed | D) Stylish |
| 1) C-D | 2) B-C |
| 3) A-B | 4) A-C |
| 5) B-D | |
| 87. A) Punctual | B) Doubtful |
| C) Superior | D) Dogmatic |
| 1) A-B | 2) B-D |
| 3) C-D | 4) A-D |
| 5) B-C | |
| 88. A) Dormant | B) Active |
| C) Trivial | D) Archaic |
| 1) A-B | 2) A-C |
| 3) A-D | 4) B-C |
| 5) C-D | |
| 89. A) Doleful | B) Sluggish |
| C) Laughable | D) Lamentable |
| 1) A-C | 2) B-C |
| 3) B-D | 4) C-D |
| 5) A-D | |
| 90. A) Transferable | B) Abominable |
| C) Estimable | D) Equitable |
| 1) A-B | 2) B-D |
| 3) B-C | 4) A-D |
| 5) C-D | |

(Directions: Qns. 91-100) Read the following passage carefully and answer the questions given below it. Certain words are printed in **BOLD** to help you to locate them while answering some of the questions.

The story is told of a certain carter whose wagon was stuck in the mud. Finding no means to get over his difficulty he prayed to Hercules, the God of strength, to come to his rescue. Answering his prayer Hercules **exhorted** him to put his own shoulder to the wheel. The carter took the

advice. He was soon able to pull the wagon out of the rut.

There is no doubt that men and women are born to perform certain duties. In the honest and sincere performance of these tasks lies the realization of the meaning of life. The world is a busy beehive. There is no place in it for **drones**.

The duties assigned to us by Nature must be performed by us ourselves single-handed or with the help of others. Those who are weak or cowardly look to others for help. This habit of looking to others for assistance is harmful because it weakens our capacity for work. It makes man too much dependent on others. It takes away all his initiative from him and kills self-realization. All these are the things which count a lot in achieving success. Without them man is a moral and physical wretch. He commands no respect from fellowmen. Apart from this, the habit of depending on others usually leads one to failure and disappointment. One feels bitter. One expects help and if it does not reach him in time he feels sad and miserable. Repeated disappointments make man cynical.

But, all together different destiny awaits him who has learnt the lesson of self-realization. Before his strong determination and his will to **conquer**, all dangers, obstacles and impediments simply disappear. Lives of great men who reached excellence in life stand out as noble examples of what self-realization can achieve.

It is customary for most of us to pray to God for divine help in all our undertakings. In doing so, our aim is to propitiate God. But, we should never forget that God's blessings are reserved only for those who are themselves up and doing. God is always on the side of the willing workers. God will help us if we prepare to help ourselves.

91. What should we keep in mind when we pray to God for divine help?
- 1) We should pray with all seriousness and sincerity
 - 2) We must purify our mind before prayer
 - 3) We should surrender our ego and pride to the God
 - 4) God will help those who help themselves
 - 5) God will render his help to the weak and poor

- 92. What are the characteristics of the self-reliant man, as mentioned in the passage?**
- 1) He is kind and noble
 - 2) He is honest and reactive
 - 3) He is purposeful and expressive
 - 4) He is careful and ambitious
 - 5) He is determined and strong willed
- 93. The meaning of life is realized when one**
- 1) derives satisfaction in the divine company
 - 2) controls one's desires and wants
 - 3) carries out the assigned tasks with honesty and sincerity
 - 4) develops the habit of procrastination
 - 5) aligns oneself with the social realities
- 94. Choose the word which is SIMILAR in meaning as the word 'exhorted' as used in the passage.**
- 1) urged
 - 2) helped
 - 3) appreciated
 - 4) denounced
 - 5) praised
- 95. Why, according to the passage, is the habit of looking to others for assistance is bad?**
- 1) It makes us over-cautious and self-indulgent
 - 2) It snatches away our initiative and destroys self-reliance
 - 3) It makes us unkind and dishonest
 - 4) It does not adequately boost our collaborative spirit
 - 5) None of these
- 96. Which of the following statements is NOT TRUE in the context of the passage?**
- 1) Lives of great men are examples of self-reliance
 - 2) Dependence leads to sadness and misery
- 97. Choose the word which is SIMILAR in meaning as the word 'drones' as used in the passage.**
- 1) competitors
 - 2) parasites
 - 3) terminators
 - 4) escapist
 - 5) challengers
- 98. Who, according to the passage, look to others for help?**
- 1) Those who propitiate God
 - 2) Those who are both proactive and reactive
 - 3) Those who are obdurate and inelegant
 - 4) Those who are indomitable and scrupulous
 - 5) None of these
- 99. What does the author want to suggest in the expression "The carter took the advice"?**
- 1) The carter's faith in the divine power was strengthened
 - 2) The carter saluted Hercules before leaving the place
 - 3) The carter learnt the lesson of doing things by oneself
 - 4) The carter learnt the importance of being honest and active
 - 5) None of these
- 100. Choose the word which is 'OPPOSITE' in meaning of the word 'conquer' as used in the passage.**
- 1) vanquish
 - 2) abolish
 - 3) damage
 - 4) eliminate
 - 5) abscond

QUANTITATIVE APTITUDE

- 101.** Ratio of the earnings of A and B is 4 : 7 respectively. If the earnings of A increase by 50% and the earnings of B decrease by 25% the new ratio of their earnings becomes 8 : 7 respectively, what are A's earnings?
- 1) Rs. 26,000 2) Rs. 28,000
 3) Rs. 21,000 4) Data inadequate
 5) None of these
- 102.** Sudhanshu invested Rs. 15,000 at interest 10 percent p.a. for one year. If the interest is compounded every six months what amount will Sudhanshu get at the end of the year?
- 1) Rs. 16,537.50 2) Rs. 16,500
 3) Rs. 16,525.50 4) Rs. 18,150
 5) None of these
- 103.** A boat running downstream covers a distance of 16 kms in 2 hours, while for covering the same distance upstream it takes 4 hours. What is the speed of the boat in still water?
- 1) 4 kmph 2) 6 kmph
 3) 8 kmph 4) Data inadequate
 5) None of these
- 104.** Sunetra invested an amount of Rs. 50,000 to start a software business. After six months, Nikhil joined her with an amount of Rs. 80,000. At the end of three years they earned a profit of Rs. 24,500. What is Sunetra's share in the profit?
- 1) Rs. 14,000 2) Rs. 9,423
 3) Rs. 10,250 4) Rs. 12,500
 5) None of these
- 105.** What approximate value should come in place of the question mark (?) in the following equation?
- $$9876 + 24.96 + 215.005 - ? = 309.99$$
- 1) 395 2) 295
 3) 300 4) 315
 5) 310
- 106.** Average weight of three boys P, T and R is $54\frac{1}{3}$ kgs, while the average weight of three boys T, F and G is 53 kgs. What is the average weight of P, T, R, F and G?
- 1) 53.8 kgs 2) 52.4 kgs
 3) 53.2 kgs 4) Data inadequate
 5) None of these
- 107.** Two girls and four boys are to be seated in a row in such a way that the girls do not sit together. In how many different ways can it be done?
- 1) 720 2) 480
 3) 360 4) 240
 5) None of these
- 108.** If $2x + 3y + z = 55$, $x + z - y = 4$ and $y - x + z = 12$ then what is the value of y?
- 1) 7 2) 8
 3) 12 4) 9
 5) None of these
- 109.** The wheat sold by a grocer contained 10% low quality wheat. What quantity of good quality wheat should be added to 150 kgs of wheat so that the percentage of low quality wheat becomes 5%?
- 1) 150 kgs 2) 135 kgs
 3) 50 kgs 4) 85 kgs
 5) None of these
- 110.** 405 sweets were distributed equally among children in such a way that the number of sweets received by each child is 20% of the total number of children. How many sweets did each child receive?
- 1) 15 2) 45
 3) 9 4) 18
 5) None of these
- (Directions: Qns. 111-115) Each of the questions consists of a question followed by three statements. You have to study the question and the statements and decide which of the statement(s) is/are necessary to answer the questions.
- 111.** What was the percentage of discount offered?
- I. Profit earned by selling the article for Rs. 252 after giving discount was Rs. 52.

- II. Had there been no discount the profit earned would have been Rs 80.
 III. Had there been no discount the profit earned would have been 40%.
- I and II only
 - II and either I or III only
 - I and III only
 - I and either II or III only
 - None of these

112. What is the area of the hall?

- Material cost of flooring per square metre is Rs. 250.
 - Labour cost of flooring the hall is Rs. 3,500.
 - Total cost of flooring the hall is Rs. 14,500.
- I and II only
 - II and III only
 - All I, II and III
 - Any two of the three
 - None of these

113. How many workers are required for completing the construction work in 10 days?

- 20% of the work can be completed by 8 workers in 8 days.
 - 20 workers can complete the work in 16 days.
 - One-eighth of the work can be completed by 8 workers in 5 days.
- I and III only
 - II and III only
 - I only
 - III only
 - Any one of the three

114. What is the speed of the train?

- The train crosses a signal pole in 13 seconds.
 - The train crosses a platform of length 250 metres in 27 seconds.
 - The train crosses another train running in the same direction in 32 seconds.
- I and II only
 - I and III only
 - II and III only
 - Any two of the three
 - None of these

115. What is the population of State 'A'?

- After increasing the population of State 'A' by 15% it became 1.61 lakhs.
- Ratio of population of State 'A' to that of State 'B' is 7 : 8 respectively.
- Population of State 'B' is 1.6 lakhs.

- I only
- II and III only
- I and II only
- Either only I or II and III
- All I, II and III

(Directions: Qns. 116-120) In each of the following questions a number series is given. After the series a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the number given, following the sequence of the original series and answer the questions that follow the series.

116. 7 4 5 9 20 52.5

- (a)
- (b)
- (c)
- (d)
- (e)

What will come in place of (c)?

- 4.5
- 2
- 6
- 7
- None of these

117. 5 6 16 57 244 1245

- (a)
- (b)
- (c)
- (d)
- (e)

What will come in place of (d)?

- 46
- 39
- 156
- 172
- None of these

118. 3 5 9 17 33 65

- (a)
- (b)
- (c)
- (d)
- (e)

What will come in place of (d)?

- 95
- 51
- 99
- 49
- None of these

119. 5 8 6 10 7 12

- (a)
- (b)
- (c)
- (d)
- (e)

What will come in place of (c)?

- 14
- 16
- 9
- 11
- None of these

120. 3 10 32 111 460 2315

- (a)
- (b)
- (c)
- (d)
- (e)

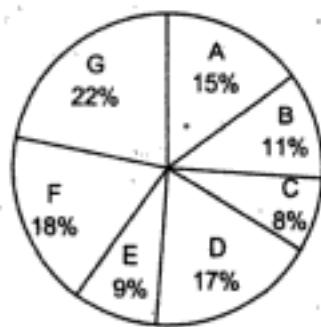
What will come in place of (b)?

- 29
- 30
- 26
- 28
- None of these

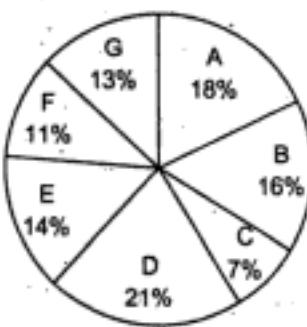
(Directions: Qns. 121-125) These questions are based on the following graph.

Distribution of candidates appeared for a competitive examination from different States and the candidates qualified from these States.

Total candidates appeared = 45,000



Total candidates qualified = 9,000



121. What is the percentage of candidates qualified from States B and C together over the total number of candidates appeared from these States? (rounded off to two digits after decimal).

- 1) 23.11
- 2) 24.21
- 3) 21.24
- 4) 23
- 5) None of these

122. What is the difference between the number of candidates qualified from States D and G?

- 1) 690
- 2) 670
- 3) 780
- 4) 720
- 5) None of these

123. What is the ratio between the number of candidates appeared from States C and E together and the number of candidates appeared together from States A and F respectively?

- 1) 17 : 33
- 2) 11 : 13
- 3) 13 : 27
- 4) 17 : 27
- 5) None of these

124. Which State has the lowest percentage of candidates qualified over appeared?

- 1) C
- 2) F
- 3) D
- 4) E
- 5) G

125. What is the ratio between number of candidates qualified from States B and D

together and the number of candidates appeared from State 'C' respectively?

- 1) 8 : 37
- 2) 11 : 12
- 3) 37 : 40
- 4) 7 : 37
- 5) None of these

126. From a set of 2 red, 3 green and 2 blue balls, 2 balls are to be drawn at random. What is the probability that none of the balls drawn is blue?

- 1) $\frac{5}{7}$
- 2) $\frac{10}{21}$
- 3) $\frac{2}{7}$
- 4) $\frac{11}{21}$
- 5) None of these

127. Which of the following values of x satisfy the inequality $2x^2 + x - 3 < 0$?

- 1) $-\frac{3}{2} < x < 1$
- 2) $-1 < x < \frac{3}{2}$
- 3) $x > 1$
- 4) $x < -\frac{3}{2}$
- 5) None of these

128. Income of a company doubles after every one year. If the initial income was Rs. 4 lakhs, what would be the income after 5 years?

- 1) Rs. 1.24 crores
- 2) Rs. 1.28 crores
- 3) Rs. 2.52 crores
- 4) Rs. 2.56 crores
- 5) None of these

129. What approximate value will come in place of the question mark (?) in the following equation?

$$\sqrt{625.04} \times 16.99 + 136.001 + 17 = ?$$

- 1) 418
- 2) 441
- 3) 438
- 4) 425
- 5) 433

130. A shopkeeper sold a TV set for Rs. 17,940 with a discount of 8% and earned a profit of 19.6%. What would have been the percentage of profit earned if no discount was offered?

- 1) 25%
- 2) 26.4%
- 3) 24.8%
- 4) Cannot be determined
- 5) None of these

- 131.** Four of the following five parts numbered (1), (2), (3), (4) and (5) are exactly equal. The number of the part which is not equal to the other four parts is your answer.

$$\begin{aligned} 24^2 - 12^2 + 112 + 14 &= 17 \times 12 + 59 \times 4 \\ (1) &\quad (2) \\ = 255 + 17 \times 28 + 20 &= 27 \times 16 + 56 + 8 \\ (3) &\quad (4) \\ = 185 \times 6 + 2 - 23 \times 5 & \\ (5) & \end{aligned}$$

(Directions: Qns. 132-135) In each of these questions, two equations are given. You have to solve these equations and find out the values of x and y and give answer:

(Directions: Qns. 136-140) Study the following table carefully and answer the questions given below it.

Number of candidates appeared and qualified from six States over the years 1994-1999

STATE	A		B		C		D		E		F	
YEAR	App.	Qual.										
1994	1200	105	1400	125	1650	140	1450	160	1700	185	1800	165
1995	1450	110	1250	130	1500	125	1600	145	1850	170	1650	170
1996	1100	120	1300	115	1400	150	1250	120	1400	160	1550	140
1997	1350	125	1100	120	1550	145	1300	140	1550	155	1700	155
1998	1400	135	1550	105	1750	155	1400	155	1650	175	1750	160
1999	1500	140	1450	110	1700	130	1500	165	1500	165	1600	175

- 136.** Approximately what is the percentage of candidates qualified over appeared from all six States together in 1994?

- 1) 15
- 2) 10
- 3) 7
- 4) 12
- 5) 14

- 137.** Percentage of candidates qualified over appeared in 1996 is the highest for which of the following States?

- 1) B
- 2) D
- 3) C
- 4) E
- 5) None of these

- 138.** The number of candidates qualified from State C in 1995 and 1998 together is what percentage of the number of candidates appeared from State B in 1994 and 1997 together?

- 1) $x < y$
- 2) $x > y$
- 3) $x \leq y$
- 4) $x \geq y$
- 5) $x = y$

132. I. $2x^2 + 5x + 2 = 0$

II. $4y^2 = 1$

133. I. $y^2 + 2y - 3 = 0$

II. $2x^2 - 7x + 6 = 0$

134. I. $x^2 + 3x + 2 = 0$

II. $2y^2 = 5y$

135. I. $x^2 - 5x + 6 = 0$

II. $y^2 + y - 6 = 0$

- 1) 12.5
- 2) 10.8
- 3) 10.2
- 4) 12.4
- 5) None of these

- 139.** Approximately what is the average number of candidates qualified from State 'D' in the given years?

- 1) 148
- 2) 158
- 3) 142
- 4) 154
- 5) 140

- 140.** Percentage of candidates qualified over appeared from State 'F' is the lowest during which of the following years?

- 1) 1998
- 2) 1997
- 3) 1996
- 4) 1994
- 5) None of these

(Directions: Qns. 141-145) Study the following table carefully to answer these questions.

Number of students studying different disciplines from seven institutes

Institute	DISCIPLINE				
	Arts	Commerce	Science	Engineering	Management
A	125	187	216	98	74
B	96	152	198	157	147
C	144	235	110	164	127
D	165	138	245	66	36
E	215	196	287	86	66
F	184	212	195	112	97
G	225	206	182	138	89

141. Approximately, what is the percentage of students studying Management out of all the students from institute 'D'?

- 1) 9
- 2) 8
- 3) 12
- 4) 10
- 5) 5

142. Which institute has the highest percentage of students studying Commerce out of the total students in the institute?

- 1) F
- 2) G
- 3) C
- 4) A
- 5) None of these

143. What is the percentage of students studying Engineering from institute 'C' out of the total students studying Engineering together from all the institutes? (rounded off to the nearest integer).

- 1) 19
- 2) 20
- 3) 18
- 4) 21
- 5) None of these

144. Number of students studying Arts from institutes A, B and C together is approximately what percentage of the number of students studying Commerce from the institutes D, E, F and G together?

- 1) 50
- 2) 45
- 3) 42
- 4) 55
- 5) 53

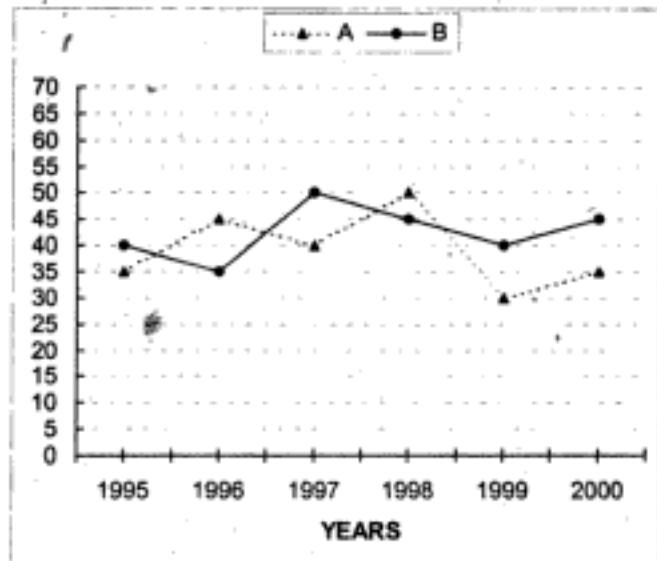
145. What is the percentage of students studying Science from institute G, out of the total number of students studying in this institute?

- 1) 17.20
- 2) 12.70
- 3) $21\frac{1}{3}$
- 4) $21\frac{2}{3}$
- 5) None of these

(Directions: Qns. 146-150) Study the following graph carefully and answer the questions given below it.

Percentage of profit earned by two Companies A and B over the given years.

$$\% \text{ Profit/Loss} = \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$



146. If the incomes of Company B in 1997 and 1998 were in the ratio of 2:3 respectively, what was the respective ratio of expenditures of that company in these two years?

- 1) 20 : 29
- 2) 9 : 10
- 3) 29 : 45
- 4) 10 : 29
- 5) None of these

147. Total expenditure of Company 'A' in all the years together was Rs. 82.5 lakhs. What was the total income of the Company in all the years together?

- 1) Rs. 1.23 crores
- 2) Rs. 98.75 lakhs
- 3) Rs. 99.85 lakhs
- 4) Cannot be determined
- 5) None of these

148. If the expenditures of Companies A and B in 2000 were equal and the total income of the two companies was Rs. 5.7 lakhs, what was the total expenditure of the two companies in 2000?

- 1) Rs. 4 lakhs
- 2) Rs. 2 lakhs
- 3) Rs. 4.2 lakhs
- 4) Cannot be determined
- 5) None of these

149. Ratio of expenditures of Companies A and B in 1999 was 3 : 4 respectively. What was the respective ratio of their incomes in 1999?

- 1) 21 : 26
- 2) 13 : 14
- 3) 14 : 13
- 4) 26 : 21
- 5) None of these

150. Expenditures of Company B in 1996 and 1997 are Rs. 12 lakhs and Rs. 14.5 lakhs respectively. What was the total income of Company B in 1996 and 1997 together (in lakh Rs.)?

- 1) 39.75
- 2) 37.95
- 3) 38.75
- 4) 38.50
- 5) None of these

REASONING

(Directions: Qns. 151-155) The English alphabet is categorized into 5 groups, each starting with a vowel and encompassing the immediately following consonants in the group. Thus, the first group would have letters, A, B, C and D; the second E, F, G and H; and so on. These groups are assigned values as 10 for the first, 20 for the second and so on, upto 50 for the last. Every letter in a particular group will have the same value of that group. When used to form words, the value of each letter should add up to compute the value of the word. If the word has letters only from the same group, the value of the word would be the value of the letter multiplied by the number of letters in the word. However, if the letters in a word are from different groups, the value of the first letter of the word and any other letter of that group will be the same as that of its group, but that of the subsequent letter will be 'double' as much as the value of its group.

For example: The value of 'CAB' will be 30 (i.e. 10 + 10 + 10) as all the three letters are from the FIRST group, each one having a value of 10.

The value of 'BUT' will be $10 + (50 \times 2) + (40 \times 2) = 190$.

Now, find out the value of each word in the following questions:

151. AGE

- 1) 50
- 2) 90
- 3) 60
- 4) 70
- 5) None of these

152. SHOP

- 1) 70
- 2) 120
- 3) 130
- 4) 140
- 5) None of these

153. HIGH

- 1) 40
- 2) 60
- 3) 70
- 4) 80
- 5) None of these

154. QUEUE

- 1) 140
- 2) 280
- 3) 320
- 4) 360
- 5) None of these

155. SPORT

- 1) 200
- 2) 360
- 3) 380
- 4) 250
- 5) None of these

(Directions: Qns. 156-160) Considering the information given for Qns. 151-155, find out which one or two or three of the words denoted by A, B, C correspond to the given value?

156. 90

- | | | |
|--------|--------|--------|
| A) BEG | B) WAD | D) NOD |
|--------|--------|--------|
- 1) A only
 - 2) B only
 - 3) C only
 - 4) A and B only
 - 5) All the three

157. 50

- | | | |
|--------|--------|--------|
| A) DAM | B) MAD | D) BAD |
|--------|--------|--------|
- 1) A only
 - 2) A and B only
 - 3) B and C only
 - 4) B only
 - 5) None of these

158. 200

- | | | |
|------------------|-----------------|-----------|
| A) HOW | B) SKY | D) BE GAY |
| 1) A and B only | 2) B and C only | |
| 3) A and C only | 4) A only | |
| 5) All the three | | |

159. 80

- | | | |
|------------------|------------------|--------|
| A) HEAD | B) AHEAD | D) ODD |
| 1) A and B only | 2) A and C only | |
| 3) B and C only | 4) All the three | |
| 5) None of these | | |

160. 230

- | | | |
|-----------------|-----------------|---------|
| A) PAWN | B) WOLF | D) DOWN |
| 1) A only | 2) B only | |
| 3) C only | 4) A and C only | |
| 5) B and C only | | |

(Directions: Qns. 161-165) Study the following arrangement carefully and answer the questions given below:

P % R 1 5 ★ M T E 3 B \$ V N 4 K A 8 W I 6
2 G # U H 7 ● J Q 9 L Y

161. Four of the following five are alike in a certain way with regard to their position in the above arrangement. Which is the one that does not belong to that group?

- | | |
|----------|----------|
| 1) GUI | 2) W 6 4 |
| 3) 7 J # | 4) 5 M % |
| 5) B V T | |

162. What should come in place of the question mark (?) in the following series based on the above arrangement?

1 ★ T 3 \$ N K 8 I ? ● Q L

- | | |
|------------------|----------|
| 1) 2 # H | 2) G H J |
| 3) 6 G H | 4) H J 9 |
| 5) None of these | |

163. Which of the following is the seventh to the right of the twentieth from the right in the above arrangement?

- | | |
|------------------|------|
| 1) 2 | 2) 1 |
| 3) G | 4) 6 |
| 5) None of these | |

164. How many such vowels are there in the above arrangement each of which is immediately preceded by a consonant and immediately followed by a number?

- | | |
|---------|----------|
| 1) None | 2) One |
| 3) Two | 4) Three |
| 5) Four | |

165. How many such consonants are there in the above arrangement each of which is immediately preceded by a symbol and immediately followed by a consonant?

- | | |
|---------|----------|
| 1) None | 2) One |
| 3) Two | 4) Three |
| 5) Four | |

(Directions: Qns. 166-170) Use the following elements (alpha, numeric and symbol combination series) to answer the questions.

A B 7 C D 9 Z Y ★ P 2 M © K S 3 ; 5 N T @

[Please note that A is to the left of B and @ is to the right of T]

166. Which of the following letters (alphabet) is exactly MIDWAY between only the letters which are between C and 5?

- | | |
|------------------|------|
| 1) Y | 2) K |
| 3) P | 4) M |
| 5) None of these | |

167. If the first element of the series from the left interchanges its place with the tenth from the left, second with ninth, third with eighth and the fourth with the sixth, then which element will be at the seventh place to the left of the eighth element counting from the right?

- | | |
|------------------|------|
| 1) 9 | 2) 7 |
| 3) D | 4) C |
| 5) None of these | |

168. How many such digits are there in the series given above each of which has a letter (alphabet) each on its either side?

- | | |
|------------------|----------|
| 1) Nil | 2) One |
| 3) Two | 4) Three |
| 5) None of these | |

169. If all the existing symbols are replaced, each by a letter (alphabet) and each number by a new symbol, what will be the total number of letters in the series?

- | | |
|------------------|-------|
| 1) 16 | 2) 17 |
| 3) 4 | 4) 12 |
| 5) None of these | |

170. If each symbol is replaced by one of such digits from 1 to 9 which are not covered in the above series, what will be the sum of all the digits in the series? [Each symbol to be replaced by a separate digit].

- 1) 19
- 2) 45
- 3) 55
- 4) 60
- 5) None of these

171. Two consecutive letters of the following English alphabet make a meaningful English word. What is the third letter to the right of the last letter of that word?

A B C D E F G H I J K L M N O P Q R S T U
V W X Y Z

- 1) Q
- 2) X
- 3) K
- 4) S
- 5) None of these

172. Find the two letters in the word EXTRA which have just as many letters between them in the word as in the English alphabet. Which is one of these two letters that comes second if they are arranged alphabetically?

- 1) E
- 2) X
- 3) T
- 4) R
- 5) A

173. A trader uses letters PS/CHOLAZY to represent digits from 0 to 9 respectively in the order as secret code to mark prices of his articles. What secret code should he used to mark the price Rs. 837.50?

- 1) AIL.HP
- 2) AIL.HS
- 3) ZYA.HO
- 4) ZCA.OP
- 5) None of these

174. "Delicious" is related to "Taste"; in the same way as "Melodious" is related to:

- 1) Memory
- 2) Loudness
- 3) Tongue
- 4) Talk
- 5) Voice

175. Which of the following letter groups carved out of English alphabet should *come in the place of the question mark (?) in the letter-group series given below?

AZB CYD EXF ? IVJ KUL

- 1) FYH
- 2) GWG
- 3) HWH
- 4) GUF
- 5) None of these

(Directions: Qns. 176-179) Study the following information carefully and answer the questions given below it.

(i) Seven types of paints A, B, C, D, E, F and G of different colours red, green, yellow, black, blue, white and orange are filled in different tins P, Q, R, S, T, U and V. The order of the type of paints, colours and the tins are not necessarily in the same order.

(ii) Paint B is not kept in tins Q or R and is white in colour. Paint D is kept in tin V and is not blue or red. F is kept in tin P and is green in colour. Paints C and E are kept in tins T and U respectively and are black and yellow in colour respectively. G is not blue in colour. Red paint is not kept in tin Q.

176. Which of the following paints is orange in colour?

- 1) A
- 2) C
- 3) D
- 4) G
- 5) None of these

177. Paint B is kept in which tin?

- 1) R
- 2) S
- 3) Q or S
- 4) Q
- 5) None of these

178. Which tin contains blue paint?

- 1) P
- 2) R
- 3) S
- 4) T
- 5) None of these

179. Which of the following combination of paint-tin-colour is correct?

- 1) A-Q-Red
- 2) A-R-Blue
- 3) F-P-Black
- 4) G-R-Red
- 5) None of these

(Directions: Qns. 180-185) Read the following information carefully and answer the given questions.

A software company has decided to recruit engineers. The following selection criteria are applied.

A candidate must—

- (i) be an engineering graduate with at least 60% marks at degree and 80% marks at HSC.
- (ii) have at least one year's experience of working.
- (iii) be ready to sign a bond of three years.
- (iv) be not more than 28 years and not less than 21 years of age as on 1.2.2001.

However, if a candidate fulfils all the criteria except—

- (a) at (i) above but has obtained at least 50% and 70% marks at degree and HSC respectively and has at least three years experience of working, the case may be referred to the Director.
- (b) at (iii) above but is willing to pay an amount of Rs. 1 lakh if required to leave, the case may be referred to the President.
- (c) at (ii) above but is a Computer Engineer, the case may be referred to DGM.

Based on the above criteria and information given in each of the following cases, you have to take a decision. You are not to assume anything and in the absence of adequate information, your answer will be '5' i.e. 'not to be selected'. The cases are given to you as on 1.2.2001.

Mark answer (1) if the case is to be selected.

Mark answer (2) if the case is to be referred to President.

Mark answer (3) if the case is to be referred to Director.

Mark answer (4) if the case is to be referred to DGM.

Mark answer (5) if the case is not to be selected.

- 180.** Ashutosh is a mechanical engineer with 65% marks at degree and 88% marks at HSC. He completed his engineering degree in 1997 at

the age of 22 years and immediately started working in an engineering firm. He is keenly interested in going to USA and is not ready to sign a bond. However, he does not mind paying an amount of Rs. 1 lakh.

- 181.** Rangachari, a computer engineer has just completed graduation in July 2000, at the age of 23 years, obtaining 72% marks. He had obtained 92% marks at HSC. He is willing to sign a bond with the company. He has joined a software company as trainee in August 2000 and is working there till date.
- 182.** Meenakshi is an electrical engineer and is working as an assistant engineer for the past two years. She had secured 85% and 69% marks at HSC and degree respectively. She has just completed 25 years of age.
- 183.** Namrata is 26 years old and is working in a software company for the past three years. She has secured 75% and 80% marks at HSC and degree respectively. She is willing to sign a bond with the company.
- 184.** Kundan is an engineering graduate with 66% marks at degree and 90% marks at HSC. He has joined an engineering firm 2 years ago at the age of 24 years. He is ready to sign the bond.
- 185.** Rajshekhar is a computer engineer and has obtained 70% and 88% marks at degree and HSC respectively. He is working for the last three years as a systems analyst. He is 26 years old and is willing to sign a bond.

(Directions: Qns. 186-195) Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and—

Give answer (1) if the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.

Give answer (2) if the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.

Give answer (3) if the data either in Statement I or in Statement II alone are sufficient to answer the question.

Give answer (4) if the data even in both Statements I and II together are not sufficient to answer the question.

Give answer (5) if the data in both Statements I and II together are necessary to answer the question.

(Caution: Do not hasten to mark the answer unless you consider both the Statements carefully).

186. In a certain code "al ed nop" means "We play chess". Which code word means "chess"?

- I. "id nim nop" means "We are honest".
- II. "gob ots al" means "They play cricket".

187. Brinda's merit rank is 17th in her class. What is her rank from the last?

- I. There are 70 students in her class.
- II. Nisha who ranks 20th in Brinda's class is 51st from the last.

188. "You must submit your application within 10 days from the date of release of this advertisement." What is the exact date before which the application must be submitted?

- I. The advertisement was released on 18th February.
- II. It was a leap year.

189. 'B' is the sister of 'A'. How is 'A' related to 'B'?

- I. 'A' is the brother of 'C'
- II. 'A' is the uncle of 'D'.

190. Kiran is older than Manoj and Dilip is older than Neelam. Who among them is the youngest?

- I. Kiran is older than Neelam.
- II. Manoj is younger than Dilip.

191. A, B, C and D made their project presentation, one on each day, on four consecutive days but not necessarily in that order. On which day did 'C' make his presentation?

- I. The first presentation was made on 23rd, Tuesday and was followed by D's presentation.

II. 'A' did not make his presentation on 25th and one of them made his presentation, between that of A's and B's.

192. The area of a playground is 1600 square metres. What is its perimeter?

- I. It is a perfect square playground.
- II. It costs Rs. 3200 to put a fence around the playground at the rate of Rs. 20/- per metre.

193. What is the shortest distance between Devipur and Durgapur?

- I. Durgapur is 20 kms away from Rampur.
- II. Devipur is 15 kms away from Rampur.

194. A box contains oranges, bananas and apples. How many apples are there in the box?

- I. Of the hundred fruits in the box, fifty per cent constitute oranges and bananas together.
- II. Fifty per cent of the fruits in the box are apples.

195. Mandar is taller than Sunil and Raghu is shorter than Abhishek. Who among them is the shortest?

- I. Raghu is shorter than Mandar.
- II. Abhishek is shorter than Sunil.

(Directions: Qns. 196-200) In the questions given below different symbols are used with different meanings as follows:

'A # B' means 'A is not greater than B'.

'A \$ B' means 'A is neither smaller than nor equal to B'.

'A @ B' means 'A is not smaller than B'

'A ★ B' means 'A is smaller than B'.

'A + B' means 'A is equal to B'.

Now, in each of the following questions assuming the given statements to be true, find out which of the two conclusions given below them is/are definitely true?

Give answer (1) if only conclusion I is true,

Give answer (2) if only conclusion II is true,

Give answer (3) if either conclusion I or conclusion II is true,

Give answer (4) if neither conclusion I nor conclusion II is true,

Give answer (5) if both the conclusions I and II are true.

196. Statements: R # V, B @ D, V ★ D

Conclusions: I. R ★ D
II. B # V

197. Statements: P \$ Q, T + F, F @ Q

Conclusions: I. T # P
II. T \$ P

198. Statements: H ★ K, J @ L, J \$ K

Conclusions: I. K + L
II. H ★ L

199. Statements: M # N, G \$ N, G ★ H

Conclusions: I. M ★ H
II. H \$ N

200. Statements: K @ T, P \$ H, T \$ P

Conclusions: I. K @ P
II. H ★ T

200-6

ANSWERS**GENERAL AWARENESS**

1. (4) 2. (1) 3. (2) 4. (5) 19. (2) He is Australian.
 5. (3) Due to good agriculture outputs. Previously it was 4.4% in 2002-2003. 20. (1) Book on various sports.
 6. (1)
 7. (1) Eight years old girl.
 8. (5) He has won gold medal for 1.83 m high jump at Asian meet, in Jakarta.
 9. (2) Displayed at Amritsar.
 10. (4) She stole food and wallets.
 11. (1)
 12. (3) at Locano Film Festival.
 13. (4)
 14. (2) of Spain.
 15. (5) This award is given to Anjali Bhagwat and K.M. Beenamol.
 16. (1) 17. (4)
 18. (4) Gagan Ajit Singh is related with hockey.
19. (2) He is Australian.
 20. (1) Book on various sports.
 21. (4) 22. (1) 23. (1) 24. (3) 25. (4)
 26. (1) 27. (1) 28. (2) 29. (3) 30. (3)
 31. (3) 32. (1) 33. (2)
 34. (3) is taken of Purchasing Power Parity (PPP).
 35. (2)
 36. (3) Since November 2002.
 37. (4) 38. (4)
 39. (2) Revenue deficit is 4.1%
 40. (5) SEBI is authorised.
 41. (1) 42. (5) 43. (1) 44. (2) 45. (1)
 46. (5) 47. (4)
 48. (2) Actually 4.4%
 49. (4) 50. (2)

ENGLISH LANGUAGE

51. (3) 52. (5) 53. (1) 54. (2) 55. (4) 81. (5) 82. (2) 83. (5) 84. (1) 85. (3)
 56. (4) 57. (2) 58. (5) 59. (1) 60. (3) 86. (5) (both are Antonyms)
 61. (1) 62. (3) 63. (1) 64. (4) 65. (2) 87. (2) (both are Antonyms)
 66. (1) 67. (4) 68. (2) 69. (5) 70. (3) 88. (1) (both are Antonyms)
 71. (3) will be come instead of has been.
 72. (1) omit do not.
 73. (1)
 74. (4) omit than.
 75. (2) omit to.
 76. (3) use to instead of should.
 77. (5) No error.
 78. (4) use second instead of last.
 79. (3) use are instead of is.
 80. (5) No error.
81. (5) 82. (2) 83. (5) 84. (1) 85. (3)
 86. (5) (both are Antonyms)
 87. (2) (both are Antonyms)
 88. (1) (both are Antonyms)
 89. (5) (both are Synonyms)
 90. (2) (both are Antonyms)
 91. (4) 92. (5) 93. (3) 94. (1) 95. (2)
 96. (4) Hercules urged carter to put his own shoulder to the wheel so that carter can pull the wagon out of the rut.
 97. (2)
 98. (5) Only weak and coward people look to others for help.
 99. (3) 100. (5)

QUANTITATIVE APTITUDE

- 101. (4)** Let the earnings be $\rightarrow 4x$ and $7x$

New Earnings will be $\rightarrow 6x$ and $7x - \frac{7x}{4}$;

$$\text{i.e. } 6x \text{ and } \frac{21x}{4}$$

Now, by given conditions,

$$\frac{6x}{21x} = \frac{8}{7}$$

$$\text{or } \frac{8}{7} = \frac{8}{7}$$

Thus, by the data, A's earnings cannot be determined as such.

- 102. (1)** For 6-monthly plan, $T = 2$, $R = \frac{10\%}{2} = 5\%$

$$\text{Using } A = P \left(1 + \frac{R}{100}\right)^T$$

$$\text{we get, } A = 15000 \left(1 + \frac{5}{100}\right)^2$$

$$\text{i.e. } A = 15000 \times \frac{21}{20} \times \frac{21}{20}$$

$$= \text{Rs. } 16537.5$$

- 103. (2)** Time = $\frac{\text{distance}}{\text{speed}}$

Let speeds of boat and river be x and y

$$\therefore 2 = \frac{16}{x+y} \text{ and } 4 = \frac{16}{x-y}$$

$$\text{i.e. } \frac{x+y}{x-y} = 2, \text{ i.e. } x = 3y$$

$$\text{Put } x = 3y \rightarrow 2 = \frac{16}{3y+y} \rightarrow y = 2$$

$$\text{and } x = 6$$

- 104. (5)** Profit is to be divided according to money invested and also time factor. Time of investments = 3 years (36 months) and

$$2 \frac{1}{2} \text{ years (30 months).}$$

$$\begin{aligned} \text{Thus, ratio of division of profit} \\ &= 50,000 \times 36 : 80,000 \times 30 \\ &= 3 : 4 \end{aligned}$$

$$\text{Sum of parts} = 3 + 4 = 7$$

$$\therefore \text{Sunetra's share} = \frac{3}{7} \times 24,500$$

$$= \text{Rs. } 10,500$$

- 105. (3)** Put $9876 \cong 9900$,

$$24.96 \cong 25,$$

$$215.005 \cong 215 \text{ and } 309.99 \cong 310$$

- 106. (5)** Total weight of D, T, R = $54 \frac{1}{3} \times 3 = 163 \text{ kg}$

$$\begin{aligned} \text{And total weight of T, F, G} \\ &= 53 \times 3 = 159 \text{ kg} \end{aligned}$$

$$\begin{aligned} \text{Thus, total weight of 6 persons} \\ &= 163 + 159 = 322 \text{ kg} \end{aligned}$$

$$\text{Average weight} = \frac{322}{6} = 53.66 \text{ kg}$$

- 107. (2)** Let the 4 boys occupy their places first, as follows:

B B B B $\rightarrow \angle 4$ ways

Now, the girls can be seated at the places (marked) as follows:

—B—B—B—B— $\rightarrow {}^5P_2$ ways

(There are 5 places and 2 girls)

$$\begin{aligned} \therefore \text{Total number of ways} &= \angle 4 \times {}^3P_2 \\ &= 24 \times 20 = 480 \text{ ways} \end{aligned}$$

- 108. (2)** From the last 2 equations,

$$\text{we get, } y = 8$$

(Just add the 2 equations)

109. (1) From given conditions,

$$10 = \frac{15}{150} \times 100$$

$$\text{and } 5 = \frac{15}{x} \times 100; x = 300$$

$$\therefore \text{Addition} = 300 - 150 = 150 \text{ kg}$$

110. (2) Let, no. of children = x

$$\text{Then, } x \times 20\% x = 405$$

$$\text{i.e. } x \times \frac{x}{5} = 405 \text{ or } x = 45$$

111. (1) Take equations I and II:

$$P = 52, SP = 252, \text{ Discount} = ?$$

and for no discount, $P = \text{Rs. } 80$

$$\text{Difference} = \text{Rs. } 80 - 52 = \text{Rs. } 28$$

Thus, discount = $\text{Rs. } 28$

$$\text{Marked price} = 252 + 28 = \text{Rs. } 280$$

$$\therefore \text{Discount} = \frac{28}{280} \times 100 = 10\%$$

Now, take equations I and III:

$$P = 52, SP = 252,$$

Discount = ? and for no discount,

$$\%P = 40\%$$

$$\text{Since } \frac{CP}{SP} = \frac{100}{100+PY} \rightarrow CP = \text{Rs. } 180$$

But, MP cannot be calculated and % discount also cannot be calculated.

Taking equations II and III,

$$P = \text{Rs. } 80, P = 40\%$$

Thus, % discount cannot be solved

112. (3) Let no. of square meters = x

$$\text{Then, total cost} = (250 \times x) + 3500 \\ = 14,500 \rightarrow 250x = 14500 - 3500$$

$$\rightarrow x = \frac{11,000}{250} = 44 \text{ m}^2$$

113. (5) From I:

20% work by 8 workers in 8 days

i.e. 100% work by 8×5 workers in 8 days

i.e. 40 workers take 8 days

x workers take 10 days

$$\therefore x = \frac{40 \times 8}{10} = 32 \text{ days}$$

From II: 20 workers take 16 days

x workers take 10 days

$$\therefore x = \frac{20 \times 16}{10} = 32 \text{ days}$$

From III: $\frac{1}{8}$ work by 8 workers in 5 days

→ 1 work by 8×8 workers in 5 days

→ 64 workers take 5 days

$$\text{Use } M_1 D_1 = M_2 D_2$$

x workers take 10 days

$$\therefore x = \frac{64 \times 5}{10} = 32 \text{ days}$$

Thus, any one of I, II and III gives answer

114. (1) 3rd statement is insufficient as it does not provide length of train.

115. (4) From I: Population

$$= \frac{100}{115} \times 1.61 \text{ lakhs}$$

From II and III:

$$\frac{7}{8} = \frac{x}{16} \rightarrow x = \frac{7 \times 1.6}{8} \text{ lakhs}$$

Thus, either only I or (II and III) together

116. (1)

117. (4) Given:

$$5 \times 1 + 1^2 = 6 \quad \therefore 2 \times 1 + 1^2 = 3$$

$$6 \times 2 + 2^2 = 16 \quad 3 \times 2 + 2^2 = 10$$

$$16 \times 3 + 3^2 = 57 \quad 10 \times 3 + 3^2 = 39$$

$$57 \times 4 + 4^2 = 244, \text{etc } 39 \times 4 + 4^2 = 172$$

118. (5) Given:

$$3 \times 2 - 1 = 5 \quad \therefore 7 \times 2 - 1 = 13$$

$$5 \times 2 - 1 = 9 \quad 13 \times 2 - 1 = 25$$

$$9 \times 2 - 1 = 17 \quad 25 \times 2 - 1 = 49$$

$$17 \times 2 - 1 = 32 \text{ etc } 49 \times 2 - 1 = 97$$

119. (5) Given:

$$\begin{array}{ll} 5 + 3 = 8 & \therefore 7 + 3 = 10 \\ 8 - 2 = 6 & 10 - 2 = 8 \\ 6 + 4 = 10 & 8 + 4 = 12 \\ 10 - 3 = 7 & \\ 7 + 5 = 12 \text{ etc} & \end{array}$$

120. (5)

121. (5) Required %

$$\begin{aligned} &= \frac{(16+7)\% \text{ of } 9,000}{(11+17)\% \text{ of } 45,000} \times 100 \\ &= \frac{22 \times 9,000}{18 \times 45,000} \times 100 = \frac{220}{9} = 24.4\% \end{aligned}$$

122. (4) Difference = 21% - 13% of 9,000

$$= \frac{8}{100} \times 9,000 = 720$$

$$123. (1) \text{ Ratio} = \frac{8\% + 9\% \text{ of } 45,000}{15\% + 18\% \text{ of } 45,000} = \frac{17}{33}$$

124. (5) The figures are:

$$\begin{aligned} A &\rightarrow \frac{\frac{18}{100} \times 9,000}{\frac{15}{100} \times 45,000} \times 100 \\ &= \frac{18 \times 9}{15 \times 45} \times 100 = 24\% \end{aligned}$$

$$B \rightarrow \frac{16 \times 9}{11 \times 45} \times 100 \approx 30\%$$

$$C \rightarrow \frac{7 \times 9}{8 \times 45} \times 100 \approx 18\%$$

$$D \rightarrow \frac{21 \times 9}{17 \times 45} \times 100 \approx 25\%$$

$$E \rightarrow \frac{14 \times 9}{9 \times 45} \times 100 \approx 31\%$$

$$F \rightarrow \frac{11 \times 9}{18 \times 45} \times 100 \approx 12\%$$

$$G \rightarrow \frac{13 \times 9}{22 \times 45} \times 100 \approx 11\%$$

Thus, G follows

$$125. (3) \text{ Required figure} = \frac{(16+21)\% \text{ of } 9,000}{8\% \text{ of } 45,000} = 37 : 40$$

$$126. (2) \text{ Required probability} = \frac{^5C_2 \times ^2C_0}{^7C_2} = \frac{10}{21}$$

(We have to choose two balls from 7, such that they are from the 5 balls (red and green) and zero balls from the 2 blue balls.)

$$127. (2) x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{-1 \pm \sqrt{1 - 4 \times 2 \times -3}}{2 \times 2}$$

$$x = \frac{-1 \pm \sqrt{25}}{4} = \frac{-1 \pm 5}{4} = 1 \text{ and } -\frac{3}{2}$$

128. (2) Income after 5 years (4)⁵ = 128 lakhs

129. (5) Approximate value

$$\begin{aligned} &= \sqrt{625} \times 17 + 136 + 17 = 25 \times 17 + 8 \\ &= 425 + 8 = 433 \end{aligned}$$

$$130. (5) \text{ CP} \xrightarrow[-8\%]{\text{MP}} \text{SP} \rightarrow (17,940) \quad P = 19.6\%$$

$$\text{Use } \frac{\text{Initial}}{\text{Final}} = \frac{100}{100+x\%}$$

$$\text{MP} = 17940 \times \frac{100}{92} = 19500$$

$$\text{and } \text{CP} = 17940 \times \frac{100}{119.6} = 15000$$

For no discount, MP becomes the SP

$$\therefore \%P = \left(\frac{19500 - 15000}{15000} \right) \times 100$$

$$P = 30\%$$

131. (4) Do the calculation yourself

143. (2)

132. (3) $2x^2 + 5x + 2 = 0$

$$4y^2 = 1$$

$$2x^2 + 4x + x + 2 = 0$$

$$y^2 = \frac{1}{4} \Rightarrow y = \pm \frac{1}{2}$$

$$2(x+2) + 1(x+2) = 0$$

$$(x+2), (2x+1)$$

$$x = -2, x = \frac{-1}{2}$$

So, $x \leq y$

133. (2) Try yourself

134. (1) Try yourself

135. (4) Try as question 132

136. (2) $\frac{\text{Total qualified of 1994}}{\text{Total appeared of 1994}} \times 100$

Do calculations yourself

137. (4)

138. (5) $\frac{1995 \text{ and } 1998 \text{ qualified of C}}{1994 \text{ and } 97 \text{ appeared State B}}$

$$\frac{125 + 155}{1400 + 1100} = \frac{280}{2500} \times 100 = 11.2$$

139. (1) Average

$$= \frac{\text{Sum of candidates in given years}}{\text{No.of years}}$$

140. (3)

141. (5) % of students of management of institute

$$D = \frac{36 \times 100}{165 + 138 + 245 + 66 + 36} = 5 \text{ (approx)}$$

142. (3) Try yourself

143. (2)

144. (1) No.of students of Arts

$$\% = \frac{\text{of A, B and C}}{\text{No.of students of Commerce of D, E, F and G}} \times 100$$

145. (4)

146. (3) % Profit/loss

$$= \left(\frac{1}{E} - 1 \right) \times 100$$

$$I_7 = \text{Income 1997}$$

$$I_8 = \text{Income 1998}$$

$$\ln 1997 \left(\frac{I_7}{E_7} - 1 \right) \times 100$$

$$= 0.5 \text{ (see from graph)}$$

$$\therefore \frac{I_7}{E_7} = 1.5$$

$$\text{Similarly } \frac{I_8}{E_8} = 1.45$$

$$\frac{I_7}{I_8} = \frac{2}{3} \text{ given}$$

$$\text{So, } \frac{E_7}{E_8} = \frac{1.45}{1.5} \times \frac{2}{3} = 29 : 45$$

147. (4) because we need separate values of each year to calculate exact value.

148. (1)

149. (3) Similar like Answer 146, only difference is you have to calculate expenditure this time.

150. (2)

Short cut

$$\frac{1}{E} = 1 + \frac{P\%}{100}$$

See P% directly from graph and find the values instantaneously. Then do accordingly the solution.

REASONING

(151 to 155): First of all make all the groups

ABCD EFGH IJKLMN OPQRST UVWXYZ

Assign values → 10 20 30 40 50

151. (2) **AGE** = $10 + (20 \times 2 + 20 \times 2) = 90$

Or $10 + (40 \times 2) = 90$

Because G and E belongs to same group; so, their group value is 20 each

152. (5) **SHOP** = $40 + 40 + 40 + (20 \times 2)$

S O P + H × 2

= $120 + 40 = 160$

Because S H P are from same group, they are in the group of first letter of the word. So, their value will not double.

153. (5) **HIGH** = $20 + 20 + 20 + (30 \times 2)$

= $60 + 60 = 120$

Same as above answer.

154. (3) **QUEUE** = $40 + (50 \times 2 + 20 \times 2 + 50 \times 2 + 20 \times 2)$
 $= 40 + (100 + 40 + 100 + 40) = 320$

155. (1) **SPORT** = $(40 + 40 + 40 + 40 + 40) = 200$

Because all the five letters are from the same group – whose value is 40 each.

(156 to 160): Use all the options to get the given value.

156. (2) **90**—given value

Try **BEG**— $10 + (20 \times 2 + 20 \times 2) = 90 \checkmark$

Try **WAD**— $50 + (10 \times 2 + 10 \times 2) = 90 \checkmark$

Try **NOD**— $30 + (40 \times 2 + 10 \times 2) = 130 \times$

So **BEG & WAD** is right option

Answer is (4) A & B only.

157. (5) **50**—given value

Try **DAM**— $10 + 10 + (30 \times 2) = 80 \times$

MAD— $30 + (10 \times 2 + 10 \times 2) = 70 \times$

BAD— $(10 + 10 + 10) = 30 \times$

All the three are wrong options—

So, Answer is (5).

158. (5) **200**—given value

Try **HOW**— $20 + (40 \times 2 + 50 \times 2) = 200 \checkmark$

SKY— $40 + (30 \times 2 + 50 \times 2) = 200 \checkmark$

BEGAY— $10 + 10 + (20 \times 2 + 20 \times 2 + 50 \times 2)$

= $20 + 40 + 100 = 200 \checkmark$

159. (2) Try yourself

160. (2) Try yourself

161. (2) W64 does not belong to given group.

Scheme is:

1 2 3

G U I

G—1 step —2 steps

ahead back

✓ So ✓ ★ W 6 4 —So, this is wrong

W 1 step 3 steps

ahead back

162. (1) Try yourself.

163. (4) Short cut $(20 - 7) = 13^{\text{th}}$ from right

164. (4) P % R 1 5 ★ M T E 3 B \$ V N 4 K A 8

W 1 6 2 G # U H 7 • J Q 9 L Y

165. (4) P % R 1 5 ★ M T E 3 B \$ V N 4 K A 8

W 1 6 2 G # U H 7 • J Q 9 L Y

166. (5) 2 will come midway between letters C & 5

167. (5) (Z) Given series A B 7 C D 9 Z Y ★ P 2
M @ K S 3 ¶ 5 N T @

Change it to : P ★ Y 9 D C Z 7 B A 2 M
@ K S 3 ¶ 5 N T @

Short cut : $8 + 7 = 15^{\text{th}}$ from right, that is Z

168. (4)

169. (1) Solve yourself

170. (2) According to question—changed series is:
 (1) (4) (6) (8)
 ABTCD9ZY★P2M@KS3\$5NT@
 So total no. of letters is:
 $= 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 = 45$
171. (5) Two consecutive letters are NO and the third letter to the last letter of the word is **R**—See given series.
172. (1) E X T R A — A B C D E
 (3 letters between)
 According to Alphabets. If they are arranged alphabetically then (E) will come second.
173. (4) PSICHO LAZY
 0 1 2 3 4 5 6 7 8 9
 Secret code for 837.50 = ZCA.OP
174. (5) Voice is related to "Melodious"
175. (5) GWH will come in place of ? mark
 Arranged According to given information
176. (3) Colours Paints Tins
 Red G R
177. (2) Green F P
 Yellow E U
178. (5) Tin Q. Black C T
 Blue A Q
 White B S
179. (4) Orange D V
 Paint **B** is not kept in Q & R & V P U & T are already full. So, paint **B** is kept in Tin(s).
 Paint **D** is orange because it is not red or blue in colours and other colours are already used.
 G is not blue in colour; it means it is Red. And A is of **Blue Colour**.
 Paint **Red** is not kept in tin Q; it means it is kept in Tin **R**.
 Paint **A** is kept in Tin **Q**—Automatically comes.
180. (2) Because Ashutosh comes under exception B as he is not ready to sign a bond.
181. (4) Because he has not one year working experience.
182. (5) Because there is no information regarding bond and he is also not a Computer Engineer.
183. (3) He has less than 80% marks in HSC but has a experience of 3 years.
184. (1) He fulfils all the conditions.
185. (1) Try yourself.
186. (5) With both statements—we can get the code word for "chess". That is—ed
187. (3) 188. (1) 189. (3)
 190. (4) K > M, D > N
 1 gives K > N So, K > M
 2 gives M < D M > D
 So, no conclusion is derived.
- Manoj or Neelam—not one person with the given information.
191. (5) First Second Third Fourth
 23rd 24th 25th 26th
 Tuesday Wednesday Thursday Friday
 A D B C
 (Given) (Given)
- A did not make his representation on 25th. So, he has made on 23rd because one person is between A & B. That is only D.
192. (3) 193. (4)
 194. (1) First statement tells
 Out of 100, 50% are Orange and Banana
 50% are apple, that is 50
 According to second, 50% of ?—Apples
 So, no exact no. of apples can be found.

195. (2) Statement II only gives shortest person. First is vague.
see below
M A given
S R 
With second \rightarrow A
So, we can make series M > S > A > R
Raghu is shortest
196. (1) $R \leq V$ $B \geq D$ $V < D$
Conclusion: I. $R < D$ II. $B \leq V$
Solve statements $B \geq D > V \leq R$
So, $R < D = \checkmark$; see arranged relationship.
 $B \leq V = x$
197. (3)
198. (4) Solve yourself according to first example of question 196.
- (196 to 200): Write down the meaning of symbols 199. (5) 200. (2)
- # = $A \leq B$ ★ = $A < B$ \$ = $A > B$
+ = $A = B$ @ = $A \geq B$

200. (2)

PROBATIONARY OFFICERS' EXAM.

(INDIAN BANK)

Original Question Paper – Exam. held on 03-08-2003

GENERAL AWARENESS

- 1.** Who amongst the following has made a suggestion that marriage laws be amended to make HIV/AIDS as a ground for divorce? (The Union Government has asked the States to give their views on the recommendation.)
- Indian Medical Association
 - Ministry of Labour & Social Welfare
 - National Commission for Women
 - The Bar Council of India
 - The World Health Organisation
- 2.** "OPEC is the Organisation of
- the countries producing electronic goods
 - the countries exporting paper and newsprint
 - the countries producing ornaments and gems
 - the countries exporting petroleum products
 - None of these
- 3.** In an effort to improve which of the following in India, the cricket board has set up a panel comprising stalwarts of the game so that players can be trained?
- Spin bowling
 - Fast bowling
 - Wicket-keeping
 - Fielding
 - None of these
- 4.** 'Astra', which was test-fired for the first time recently in India, is a(n)
- air-to-surface missile
 - surface-to-air missile
 - air-to-air missile
 - sea missile capable of locating and destroying submarines
 - newly-designed missile capable of destroying Pattan tanks
- 5.** "Mufti wants 'soft border' in J & K" was the news in a leading newspaper recently. What does it really mean? Choose the correct statement(s).
- The J & K Chief Minister wants no further military action at the border as the issue can be taken up at the time of Indo-Pak Summit.
 - Mufti Mohammad Sayeed pleaded that the people living on both the sides of the J & K border should be allowed to meet freely as is being done in Rajasthan and Gujarat.
 - The J & K Chief Minister wants that the fencing at the border in J & K area should be dismantled as it will boost the confidence of the people in both the countries.
- Only A
 - Only B
 - Only C
 - Only A & C
 - None of these
- 6.** Which of the following is NOT a part of the USA's resolution on the "Management of Post-War Iraq", introduced in the UN recently?
- The USA and The UK would run Baghdad as occupying power.
 - The internal security of the country will be handed over to a group of nations comprising army support from India, Russia, France and Germany.
 - The management of Iraq's oil revenue would pass from the UN to an Iraqi Assistance Fund controlled by the US and Britain.
 - The UN would lift economic sanctions imposed in 1990 on Iraq.
- Only A
 - Only B & C
 - Only C
 - Only A,C & D
 - Only B

- 7. The Union Government recently dereserved some more items from the list of the items reserved for the small scale sector. Which of the following are now dereserved items?**
- Garments and purses
 - Paper and newsprint
 - All sorts of pharma products
 - Medical and surgical instruments
 - All are now dereserved items
- 8. Which of the following is/are TRUE for the industrial production growth of 2002-03?**
- It grew around 6%.
 - Consumers spent most in the past fifteen years.
 - In 2002-2003, non-manufacturing sector grew by 6%, which contributed 30% in industrial production.
- Only A
 - Only B
 - Only A & B
 - Only C
 - All of them are true
- 9. Burma-Shell, which has got permission to establish petrol pump station in 2000, belongs to which country?**
- Iraq
 - Holland
 - USA
 - Iran
 - Britain
- 10. NASA has recently launched a Robotic Rover on which planet in order to know whether life exists there?**
- Jupiter
 - Mars
 - Mercury
 - Venus
 - None of these
- 11. India imported how much crude oil last year?**
- 30 mn tonnes
 - 40 mn tonnes
 - 50 mn tonnes
 - 75 mn tonnes
 - 85 mn tonnes
- 12. India's demand for a permanent seat in the Security Council is not appreciated by a few people. They give which of the following reasons in support of their view?**
- (A) India is a developing country and has a progressive economic set-up. She should have strong economy as China and Japan before demanding a permanent seat in the Security Council.
- (B) If number is a parameter than we have to think more of the representation of SAARC because it represents 28% population of the world.
- (C) The world has become unipolar. In this situation any controversy can bring India into conflict with the superpower, which may be disastrous for the country.
- Only A
 - Only B
 - Only C
 - Only A & B
 - None of these
- 13. USA made a request to India to send forces to**
- Iran
 - Kuwait
 - Sri Lanka
 - Nepal
 - Iraq
- 14. GSAT-2 is India's**
- first Rocket is to be launched to Moon in 2003
 - first Communication Experimental Satellite
 - recently launched Communication Experimental Satellite
 - first rocket to collect data from Mars
 - None of these
- 15. Which of the following is/are true about Vidya Vahini?**
- Around 60000 schools are to be connected.
 - It is only for those schools and colleges which will contribute to this project.
 - Anyone can use it for knowledge and educational means.
- Only A
 - Only B
 - Only C
 - Only A & C
 - Only B & C
- 16. Recently a group of tourist and communication officers came to India from Pakistan**
- to restart the Samjhauta Express
 - to restart the Delhi-Lahore bus service
 - to gain information about air links
 - to find out a place to open tourism office in India
 - None of these

- 17. The Government of which State was about to fall when Ajit Singh's National Lok Dal's 14 members withdrew the support?**
- 1) Madhya Pradesh 2) Bihar
 - 3) Jharkhand 4) Uttar Pradesh
 - 5) None of these
- 18. Which of the following States has issued an ordinance against the usurers?**
- 1) Tamil Nadu 2) Maharashtra
 - 3) Gujarat 4) Delhi
 - 5) None of these
- 19. Two prominent leaders of different countries were in London. The eminent personalities discussed cross-border terrorism, peace process, etc. They were**
- 1) Atal Behari Vajpayee and Jamali
 - 2) General Musharraf and LK Advani
 - 3) George Fernandes and Jamali
 - 4) Jamali and LK Advani
 - 5) None of these
- 20. Which of the following countries witnessed protest from a special community in front of the strong and eminent man of the country and also protest against their restricted rights to freedom?**
- 1) Iran 2) Lebanon
 - 3) Kuwait 4) Syria
 - 5) None of these
- 21. Which of the following countries decided to reduce its armed forces by 500000?**
- 1) India 2) Sri Lanka
 - 3) China 4) Bangladesh
 - 5) Myanmar
- 22. 'Baath Party' was recently in news.**
- 1) Ariel Sharon is its President.
 - 2) Saddam Hussain is its President.
 - 3) It is a group of Hamas of Israel.
 - 4) It is an active political party of Myanmar.
 - 5) None of these
- 23. Atal Behari Vajpayee recently was in Aviana**
- 1) to discuss with Italy's Prime Minister
 - 2) to discuss with France Prime Minister
 - 3) to participate in G-8 meeting
- 24. Recently, Geeta Anand was in news because**
- 1) she won the Pulitzer Award for journalism
 - 2) she won the Booker Award for her first novel
 - 3) she has been appointed as the first lady Deputy Governor of RBI
 - 4) she became the first lady to reach the semi-finals of Davis Cup in USA in September 2002
 - 5) she is a famous social activist who has been selected for Jamnalal Bajaj Award for the year 2003
- 25. Which among the following PSUs' IPO was hugely successful?**
- 1) Bank of India
 - 2) Maruti Udyog Limited
 - 3) BPCL 4) State Bank of India
 - 5) None of these
- 26. Which of the following agencies has been established by the Banks and FIs to take care of corporate tax evasion?**
- 1) ARCIL 2) ICRA
 - 3) SHCIL 4) SEBI
 - 5) None of these
- 27. The Indian Government is thinking to increase the Foreign Direct Investment in Telecom Sector up to what limit?**
- 1) 60% 2) 65%
 - 3) 70% 4) 74%
 - 5) None of these
- 28. Which of the following is the tax rate for those having annual income more than Rs 1.5 lakhs according to the 2003-04 Budget?**
- 1) 10% 2) 20%
 - 3) 30% 4) 45%
 - 5) None of these
- 29. In 2002-03 the tea export from India, according to the Centre for Monitoring Indian Economy,**
- 1) reduced by around 5%
 - 2) increased by around 5%
 - 3) reduced by around 7%
 - 4) increased by around 7.5%
 - 5) was at the level of previous year 2001 -02

- 30. What percentage of children below three years suffer from malnutrition?**
- 1) 30%
 - 2) 15%
 - 3) 18%
 - 4) 22%
 - 5) 28%
- 31. Which of the following States witnessed violence during the panchayat elections in which a Central Minister was also participating?**
- 1) Orissa
 - 2) Manipur
 - 3) West Bengal
 - 4) Uttar Pradesh
 - 5) None of these
- 32. Recently HD Devegowda and Ajit Singh announced to form National Forum for Small States. They were demanding the small state of**
- 1) Bodoland
 - 2) Bundelkhand
 - 3) Vidarbha
 - 4) Telangana
 - 5) None of these
- 33. Recently Ms. Michael Elliot Mary visited India and organised meeting with the ministers. She is the**
- 1) defence minister of France
 - 2) foreign minister of Germany
 - 3) tourism minister of Italy
 - 4) deputy foreign minister of France
 - 5) defence minister of Germany
- 34. According to the Monetary Policy, the Bank rate in 2003- 04 for the next six months is**
- 1) 6.5%
 - 2) 6%
 - 3) 7%
 - 4) 7.5%
 - 5) None of these
- 35. The Cash Reserve Ratio from 14th June 2003 is**
- 1) 3%
 - 2) 3.5%
 - 3) 4%
 - 4) 4.5%
 - 5) None of these
- 36. According to the recent policy, the Non-Banking Firms can invest in the money market up to**
- 1) 50%
 - 2) 60%
 - 3) 70%
 - 4) 75%
 - 5) 85%
- 37. What is the GDP growth target for 2003-04?**
- 1) 4.33%
 - 2) 5.5%
 - 3) 6%
 - 4) 6.33%
 - 5) 7.5%
- 38. Which of the following countries recently amended its migration laws due to which it has become difficult to get visa for jobs?**
- 1) Canada
 - 2) New Zealand
 - 3) Russia
 - 4) Germany
 - 5) USA
- 39. Ronaldo, who was recently in the news, is a famous**
- 1) badminton player
 - 2) soccer superstar
 - 3) pop singer
 - 4) politician and defence minister of Brazil
 - 5) author who won the Pulitzer Prize for 2003
- 40. Who amongst the following is the biggest producer of crude oil in the world?**
- 1) Russia
 - 2) Iran
 - 3) Libya
 - 4) Israel
 - 5) None of these
- 41. We very often come across a term 'G-Securities' in the financial world. What is 'G' in G-Securities?**
- 1) General
 - 2) Group
 - 3) Genuine
 - 4) Government
 - 5) None of these
- 42. K. Kasturirangan, the Chairman of the ISRO, was recently in news as**
- 1) he is the recipient of the prestigious Ram Mohan Award for the year 2003.
 - 2) he has been invited by the NASA to be on its Board of Directors as a special invitee.
 - 3) he is our new High Commissioner to the UK.
 - 4) he is now a nominated member of the Rajya Sabha.
 - 5) he has published his first book, *The Diary of a Scientist*.
- 43. Five Indian cricket players have been picked up to play in English counties recently. Who amongst the following is NOT one of them?**
- 1) Ashish Nehra
 - 2) Rahul Dravid
 - 3) Yuvraj Singh
 - 4) Mohammad Kaif
 - 5) Virender Sehwag

44. Nalin Surie's name was recently in news as he will be India's Ambassador to
 1) Vietnam 4) Surinam
 2) Sri Lanka 3) Myanmar
 5) China
45. The recent announcement of change in CRR will release what amount approximately (in Rs crore)?
 1) 2300 2) 2500
 3) 2800 4) 3000
 5) 3500
46. As per recent policy announcement, a bank or financial institution can give what amount as loan for housing purpose in rural and semi-rural areas?
 1) Rs. 5 lakhs 2) Rs. 7 lakhs
 3) Rs. 7.5 lakhs 4) Rs. 8.5 lakhs
 5) Rs. 10 lakhs
47. Anjali Vedpathak's name was recently in the news as she
 1) has become the first Indian to win a gold medal in ISSF World Cup Shooting Championship.
 2) was found positive in doping test during the National Games held in Hyderabad.
48. 3) has been chosen for the Arjuna Award recently.
 4) will be the Minister of State in the Union Cabinet looking after the Ministry of Sports.
 5) None of these
49. As per the figures published in the newspapers, which of the following has maximum contribution in the export of steel from India?
 1) TISCO 2) SAIL
 3) Jindal Steel 4) Essar Steel
 5) None of these
50. The World Railways volleyball tournament was held recently in
 1) Russia 2) India
 3) Britain 4) France
 5) None of these
51. Recently an Indian film personality was chosen for the "Commander of the Order of Arts and Letters Award" of France. The name of the person is
 1) Gulzar 2) Ramanand Sagar
 3) Ekta Kapoor 4) Mahesh Bhatt
 5) Adoor Gopalkrishnan

ENGLISH LANGUAGE

Directions (Qns. 51-62): Read the following passage to answer the given questions. Some words have been printed in **BOLD** to help you locate them while answering some of the questions.

We tend to be harsh on our bureaucracy, but nowhere do citizens enjoy dealing with their government. They do it because they have to. But that doesn't mean that the experience has to be **dismal**. Now there is a new wind blowing through government departments around the world, which could take some of this pain away. In the next five years it may well transform not only the way public services are delivered but also the fundamental relationship between governments and citizens. Not surprisingly, it is the Internet that is behind it. After e-commerce and e-business, the next revolution may be e-governance.

Examples abound. The municipality of Phoenix, Arizona, allows its citizens to renew their car registrations, pay traffic fines, replace lost identity cards, etc, online without having to stand in endless queues in a grubby municipal office. The municipality is happy because it saves \$5 a transaction. It costs only \$ 1.60 to process an online transaction versus \$ 6.60 to do it across the counter. In Chile, people routinely submit their income tax returns over the Internet, which has increased transparency, and drastically reduced the time taken and the number of errors and litigation with the tax department. Both tax payers and the revenue department are happier.

The furthest ahead, not surprisingly, is the small, rich and entrepreneurial civil service of Singapore, which allows citizens to do more

functions online than any other. As in many private companies, the purchasing and buying of Singapore's government departments is now on the Web, and cost benefits come through more competitive bidding, easy access to global suppliers and time saved by online processing of orders. They can post their catalogues on their site, bid for contracts, submit invoices and check their payment status over the Net.

The most useful idea for Indian municipalities is GovWorks, a private sector-run site that collects local taxes, fines and utility bills for 3600 municipalities across the United States. It is a citizen's site, which also provides information on government jobs, tenders, etc. The most ambitious is the British government, which has targeted to convert 100 per cent of its transactions with its citizens to the Internet by 2005.

Cynics in India will say, 'Oh, e-governance will never work in India. We are so poor and we don't have computers.' But they are wrong! There are many experiments afoot in India as well. Citizens in Andhra Pradesh can download government forms and submit applications on the Net without having to bribe clerks. In many districts, land records are online and this has created transparency. Similarly, in Dhar district of Madhya Pradesh, villagers have begun to file applications for land transfers and follow their progress on the Net. In seventy villages in the Kolhapur and Sangli districts in Maharashtra, Internet booths have come up where farmers can daily check the market rates of agricultural commodities in Marathi, along with data on agricultural schemes, information on crop technology, when to spray and plant their crops and bus and railway time tables. They also find vocational guidance on jobs, applications for ration cards, kerosene / gas burners and land record extracts with details of land ownership.

Sam Pitroda's WorldTel, Reliance Industries and the Tamil Nadu government are jointly laying 3000 km of optic fibre cables to create a Tamil Network which will offer ration cards, school, college and hospital admission forms, land records, and pension records. If successful, WorldTel will expand the network to Gujarat, Karnataka and West Bengal. In Kerala, all the villages are getting linked online to the district headquarters, allowing citizens

to compare the development priorities of their villages with other villages in the State.

Many are still skeptical of the real impact because so few Indians have computers. The answer lies in interactive cable TV and in Internet kiosks. Although India has only five million computers and thirty-eight million telephones, it has thirty-four million homes with cable TV and these are growing eight per cent a year. By 2005 most cable homes will have access to the Internet from many of the 700000 local STD/ PCO booths. Internet usage may be low today, but it is bound to grow rapidly in the future, and e-governance in India may not be a dream.

51. According to the passage, which country has the most ambitious plan for e-governance?

- | | |
|--------------|----------|
| 1) USA | 2) Chile |
| 3) Singapore | 4) India |
| 5) UK | |

52. GovWorks is working in which of the following countries?

- | | |
|------------------|--------------|
| 1) India | 2) UK |
| 3) Chile | 4) Singapore |
| 5) None of these | |

53. Choose the word that is opposite in meaning of the word "dismal" as used in the passage.

- | | |
|-------------|------------|
| 1) grim | 2) approve |
| 3) pleasing | 4) better |
| 5) enrich | |

54. How can India overcome low penetration of computers for e-governance?

- | | |
|---|--|
| 1) By manufacturing more computers | |
| 2) Through cable TV and Internet Kiosks | |
| 3) By opening more STD/PCO booths. | |
| 4) By making the Internet free | |
| 5) By putting more services on the Internet | |

55. Which of the following has not been one of the effects of submitting income tax returns over the Internet in Chile?

- | | |
|----------------------------------|--|
| 1) Reduction of legal cases | |
| 2) Reduction in errors | |
| 3) Increase in transparency | |
| 4) Increase in number of returns | |
| 5) Reduction in time taken | |

56. Choose the word that is the same in meaning as the word "abound" as used in the passage.

- | | |
|-------------|----------------|
| 1) around | 2) proliferate |
| 3) flourish | 4) plentiful |
| 5) few | |

57. Choose the word that is the same in meaning as the word "post" as used in the passage.

- | | |
|------------|-------------|
| 1) deliver | 2) send |
| 3) put up | 4) drop out |
| 5) later | |

58. According to the passage, which country is at present the most advanced in e-governance?

- | | |
|--------------|----------|
| 1) Singapore | 2) Chile |
| 3) India | 4) USA |
| 5) UK | |

59. In which direction is the new wind blowing?

- 1) More and more interaction of citizens with government through Internet
- 2) Outsourcing the work of infrastructure creation for Internet
- 3) Increasing the penetration of computers in rural areas
- 4) Integrating e-commerce, e-business and e-governance
- 5) Introducing e-governance programmes in schools and colleges

60. According to the passage, what is the annual growth rate of computer in India?

- | | |
|------------------|------------------|
| 1) 8% | 2) 5% |
| 3) 0.5% | 4) Not mentioned |
| 5) None of these | |

61. Compared to across-the-counter, the cost of online transaction is

- | | |
|--------------------------------|-----------------------|
| 1) little less | 2) substantially less |
| 3) more or less the same | |
| 4) little more | |
| 5) Rs 4/- less per transaction | |

62. According to the author, e-governance in India

- 1) is a dream and may not succeed
- 2) will not succeed unless more computers are owned by citizens

- 3) has witnessed successful attempts and plans
- 4) will not work because the model is suited for developed countries
- 5) though will bring transparency, will increase corruption

Directions (Qns. 63-70): Read the following passage to answer the given questions. Some words have been printed in **BOLD** to help you locate them while answering some of the questions.

Employment exchanges — one of the surviving bastions of babudom — face the prospect of becoming irrelevant in an era of reform. Even in the heart of the nation's capital, the premises are often dilapidated structures with dirty passages and manned by surly staff. Not surprisingly, job-seekers hardly throng these exchanges. Paradoxically, when jobs are getting scarce due to pressure of liberalisation, job-seekers are **spurning** an institution intended to help them secure placements. The reasons are simple enough. Employment exchanges still concentrate on government and public sector placements, which are fast losing ground in the labour market. For most government jobs, the eligibility criterion is still registration with the employment exchanges. But what is the use of going through the formalities of registration when government jobs themselves are dwindling? The placement effected by all the 939-odd exchanges in the country in 2001 was of the order of 1.69 lakh against annual registration levels of 60 lakh. As there are too few jobs when compared to the number of job-seekers, the accumulated backlog of registrations is close to 4.16 crore. The latter of course doesn't indicate unemployment levels as those registered with the employment exchanges are not necessarily unemployed.

How can the employment exchanges be revamped? The thinking in the Union labour ministry is to transform them into employment promotion and guidance centres. The plan includes modernisation, changing the mindset of the staff and making them into an effective instrument for monitoring and coordinating various employment generation schemes. This objective calls for developing a better database on the fast changing employment situation with a comprehensive

coverage of new economic establishments. For instance, the various economic censuses are an important source of information on the changing employment profile of, say, the nation's capital. Far from being a bureaucrat-dominated city, Delhi over the years has become more of an industrial metropolis. According to the fourth economic census, manufacturing accounted for 40 per cent of jobs in the capital. The employment exchanges in the capital thus have their work cut out notably, to shift the focus away from government and public sector jobs more towards placements in the private sector, especially in manufacturing and services, including the **burgeoning** retail trade sector. By doing so, they will better reflect the **imperatives** of economic reform and remain relevant in today's times.

63. Choose the word that is opposite in meaning of the word "spurning" as used in the passage.

- 1) thronging
- 2) evaluating
- 3) criticising
- 4) following
- 5) rejecting

64. Which of the following is NOT TRUE in

67. Choose the word that is same in meaning as the word "secure" as used in the passage.

- 1) fasten
- 2) safe
- 3) obtain
- 4) re-assure
- 5) lock

68. Choose the word that is opposite in meaning of the word "burgeoning" as used in the passage.

- 1) flourishing
- 2) loss-making
- 3) expanding
- 4) distressing
- 5) declining

69. In order to remain relevant, which of the following should be the focus of employment exchanges?

- 1) To make efforts to increase their registration
- 2) To shift attention to jobs in private sector
- 3) To shift focus to jobs in manufacturing in public sector organisations
- 4) To reform exchanges by recruiting trained staff
- 5) To obtain more grants from government

70. Which of the following is NOT TRUE in

71. Owing to 1)/scarcity of water, 2)/the metropolitan city of Mumbai is passing 3)/through a hard time. 4)/ All correct 5).
72. I reprimanded him for using 1)/ humiliating language while 2)/ addressing the 3)/ audience. 4)/All correct 5)
73. I appealed to her to look after my 1)/ children during my2)/absence and she 3)/ acceded to my request. 4)/ All correct 5)
74. You have absolutely no 1)/ authority to 2)/ interfere in my 3)/ affairs. 4)/All Correct 5)
75. This time I was compelled 1)/ to leave him unpunished 2)/ although he deserved severe 3)/ punishment for breech of rules.4)/ All correct 5)
76. The cinema transforms 1)/ abstract 2)/ themes 3)/ into concrete stories. 4) All correct 5)
77. He advised 1)/ me not to pick 2)/up quarrel 3)/ with neighbours on trivial matters. 4)/ All correct 5)

Directions (Qns. 78-87): In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

In 78 of constitutional guarantees relating to equality of opportunity and various other guarantees of equality before the law, the social and economic 79 of women, especially of poor women in India, is well-known. We are referring mainly to the poor rural women who have little or no assets and who 80 the bulk of the female population in rural areas. It is not as if only poor rural women get less wages or suffer from social 81 because they belong to a particular community. Even at higher levels of the socio-economic hierarchy among the well-to-do groups, women are not 82 to men. Among the economically 83 sections of society, women's proper place is 84 to be the home. In rural areas, women of 85 status families, normally do not go out to work. In the 86 value system, there is a gradation of economic activities, which is 87 in the socio-economic status of the family.

Thus, if the women of the family do manual labour in the fields, it denotes low status. Women earning a living, or supplementing their family income through economic activities like stitching, garment-making, or some handicraft work, are also considered low because it clearly shows that their family is poor and they are forced to make ends meet. It is considered right and proper for a woman to cook, sew and take up activities like pickle-making for her own family. But, if she were to earn a wage through these same activities, it denotes poverty and also, often, low socio-economic status.

- | | |
|-------------------|----------------|
| 78. 1) support | 2) spite |
| 3) contrast | 4) wake |
| 5) view | |
| 79. 1) condition | 2) prosperity |
| 3) progress | 4) deprivation |
| 5) value | |
| 80. 1) constitute | 2) deploy |
| 3) measure | 4) define |
| 5) exploit | |
| 81. 1) status | 2) service |
| 3) indifference | 4) ignorance |
| 5) discrimination | |
| 82. 1) dedicated | 2) accountable |
| 3) equal | 4) responsible |
| 5) antagonistic | |
| 83. 1) marginal | 2) significant |
| 3) well-off | 4) affordable |
| 5) dependable | |
| 84. 1) entitled | 2) decided |
| 3) indicated | 4) debated |
| 5) considered | |
| 85. 1) economic | 2) appropriate |
| 3) ample | 4) higher |
| 5) social | |
| 86. 1) unequal | 2) prevailing |
| 3) appropriate | 4) commendable |
| 5) deplorable | |
| 87. 1) reflected | 2) exempted |
| 3) barred | 4) considered |
| 5) neglected | |

Directions (Qns. 88-95): In each question below a sentence is given and a part of it is printed in ITALICS type. Below each sentence, there are five words/groups of words. Find out which one of them can substitute the part of the sentence printed in ITALICS type.

88. He loses his temper even with the slightest provocation.
- 1) casual approach
 - 2) insignificant stimulus
 - 3) lowest care
 - 4) most important reason
 - 5) least significant opportunity
89. He frequently goes back on his words.
- 1) repeats his words
 - 2) confuses others
 - 3) stumbles
 - 4) indulges into slips of tongue
 - 5) breaks his promises
90. It was not clear as to what he was hinting at.
- 1) criticizing 2) hitting hard
 - 3) concluding 4) suggesting
 - 5) inferring
91. He turned into a bankrupt person as he was leading a life beyond his means.
- 1) of a miserly person
 - 2) in an extravagant manner
 - 3) of a meaningless person
 - 4) in a mean way
 - 5) without any precaution
92. He is an idle person and the same remark about him applies to you also.
- 1) is a bad sign for 2) is appealing to
 - 3) holds good for 4) is interesting to
 - 5) brings pleasure to
93. It is his feelings that we are not cut out for a marketing job.
- 1) suitable 2) sharpened
 - 3) unwilling 4) reluctant
 - 5) ambitious
94. He has been harping on the same thing every now and then.
- 1) in a different manner
 - 2) in the identical way
 - 3) indifferently 4) unintelligently
 - 5) frequently
95. Please look into the matter personally as it is very important.
- 1) secretly study 2) take care of
 - 3) dispose 4) examine
 - 5) overlook

Directions (Qns. 96-100): Which of the phrases 1), 2), 3) and 4) given below should replace the phrases given in ITALICS in the following sentences to make the sentences grammatically correct? If the sentence is correct as it is and no correction is required, mark 5) as the answer.

96. Government *should not stop to spending* money on arms and ammunition in the wake of the present strained relations.
- 1) should not stop spending
 - 2) shall not be stopped to spend
 - 3) will not stop to spend
 - 4) should not be stopping to spend
 - 5) No correction required
97. The one-act play was so humorous that it was *hardly impossible* to keep a straight face.
- 1) is hardly impossible
 - 2) was almost impossible
 - 3) is hardly possible
 - 4) was barely impossible
 - 5) No correction required
98. One of the politicians *have open admittance* that he had resorted to corrupt practices.
- 1) have opened admittance
 - 2) has opened admittance
 - 3) has openly admitted
 - 4) have been open admittances
 - 5) No correction required
99. The unkind *comments passed by* her superiors made her resign.
- 1) unkindly comments passing by
 - 2) unkind comments passing on
 - 3) unkind comments posed by
 - 4) unkindly comments passed on
 - 5) No correction required
100. The ban on public meetings *have been lifted temporarily* in view of the auspicious occasion.
- 1) have been temporarily lifted
 - 2) have been lifting temporarily
 - 3) had been lifting temporary
 - 4) has been lifted temporarily
 - 5) No correction required

QUANTITATIVE APTITUDE

Directions (Qns. 101-105): For the two given equations I and II, give answer

- 1) if a is greater than b
- 2) if a is smaller than b
- 3) if a is equal to b
- 4) if a is either equal to or greater than b
- 5) if a is either equal to or smaller than b

101. I. $\sqrt{2304} = a$

II. $b^2 = 2304$

102. I. $12a^2 - 7a + 1 = 0$

II. $15b^2 + 16b + 4 = 0$

103. I. $a^2 + 9a + 20 = 0$

II. $2b^2 + 10b + 12 = 0$

104. I. $3a + 2b = 14$

II. $a + 4b - 13 = 0$

105. I. $a^2 - 7a + 12 = 0$

II. $b^2 - 9b + 20 = 0$

Directions (Qns. 106-112): What approximate value will come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value).

106. $10^3 \times 100^3 + 999999999 = 10^? + 10^?$

- 1) 6, 9
- 2) 9, 9
- 3) 6, 12
- 4) 16, 9
- 5) 6, 18

107. 134% of 3894 + 38.94% of 134 = ?

- 1) 5000
- 2) 5300
- 3) 5500
- 4) 5270
- 5) 4900

108. $(21 + 99) \times (30 - 19.02) = ?$

- 1) 3581
- 2) 131
- 3) 1290
- 4) 1600
- 5) 1320

109. $\frac{2}{6} \times \frac{6}{8} \times \frac{2}{3} \times \frac{3}{5} = ?$

- 1) 0.45
- 2) 0.5
- 3) 1.45
- 4) 0.2
- 5) 0.55

110. $\sqrt{1000000.0000001}$

- 1) 1000
- 2) 100
- 3) 10000
- 4) 999
- 5) 99

111. $22.9782 + 0.02 + ? = 23$

- 1) 0.08
- 2) 20.08
- 3) 0.02
- 4) 0.007
- 5) 0.80

112. $21 + 3.7 \times 2.9 = ?$

- 1) 74
- 2) 70
- 3) 27
- 4) 32
- 5) 44

Directions (Qns. 113-117): What will come in place of the question mark in the following number series?

113. 114 115 107 134 70 ?

- 1) 140
- 2) 35
- 3) 195
- 4) 150
- 5) None of these

114. 2 6 33 49 174 210 ?

- 1) 553
- 2) 259
- 3) 426
- 4) 274
- 5) None of these

115. 64 128 92 220 148 404 ?

- 1) 332
- 2) 296
- 3) 276
- 4) 260
- 5) None of these

116. 2 21 138 705 ?

- 1) 2386
- 2) 3540
- 3) 2820
- 4) 3236
- 5) None of these

117. 9 ? 20 31 51 82 133

- 1) 13
- 2) 18
- 3) 12
- 4) 15
- 5) None of these

Directions (Qns. 118-127): Each of the questions below consists of a question and two statements numbered I and II given below it.

You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer.

1) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

2) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

3) if the data either in statement I alone or in statement II alone are sufficient to answer the question.

4) if the data even in both statements I and II together are not sufficient to answer the question.

5) if the data in both statements I and II together are necessary to answer the question.

118. How many students are there in the school?

- I. The number of boys is 90 more than that of girls.
- II. The percentage of boys to the percentage of girls is 145.

119. What is a two-digit number?

- I. The sum and difference of digits are 9.
- II. The unit's digit is less than the ten's digit.

120. What is the rate of compound interest?

- I. The principal was invested for 4 years.
- II. The interest earned was Rs 1491.

121. What is the measure of the third angle of a triangle?

- I. The sum of the other two angles is 130° .
- II. The sum of second and third angles is 110° .

122. What is the distance between the points X and Y?

- I. A boat takes 4 hours in covering a distance from X to Y downstream and from Y to X in upstream.
- II. The speed of the boat in still water is 5 kmph.

123. What is the volume of a 32-metre-high cylindrical tank?

- I. The area of its base is 154 m^2 .
- II. The diameter of base is 14 m.

124. Aparna is twice as old as Savita. What is the difference between their ages?

- I. Five years hence, the ratio of their ages would be 9 : 5.
- II. Ten years back, the ratio of their ages was 3 : 1.

125. A train crosses a pole in 10 seconds. What is the length of the train?

- I. The train crosses another train running in opposite direction at a speed of 80 km/hr in 22 seconds.
- II. The speed of the train is 108 km/hr.

126. What is the area of a rectangle?

- I. The difference between the sides is 5 cm.
- II. The measure of its diagonal is 10 cm.

127. Is X an odd integer?

- I. When multiplied by an even number, it gives an even number.
- II. When multiplied by an odd number, it gives an odd number.

128. The average of five consecutive odd numbers is 61. What is the difference between the highest and the lowest number?

- | | |
|-------------------------|------|
| 1) 8 | 2) 2 |
| 3) 5 | |
| 4) Cannot be determined | |
| 5) None of these | |

129. The difference between a two-digit number and the number obtained by interchanging the digits is 9. What is the difference between the two digits of the number?

- | | |
|-------------------------|------|
| 1) 8 | 2) 2 |
| 3) 7 | |
| 4) Cannot be determined | |
| 5) None of these | |

130. Which of the following has fractions in ascending order?

- | | |
|---|---|
| 1) $\frac{2}{5}, \frac{3}{5}, \frac{1}{3}, \frac{4}{7}, \frac{5}{6}, \frac{6}{7}$ | 2) $\frac{1}{3}, \frac{2}{5}, \frac{3}{5}, \frac{4}{6}, \frac{5}{7}, \frac{6}{7}$ |
| 3) $\frac{1}{3}, \frac{2}{5}, \frac{3}{5}, \frac{4}{7}, \frac{5}{6}, \frac{6}{7}$ | 4) $\frac{1}{3}, \frac{2}{5}, \frac{4}{7}, \frac{3}{5}, \frac{5}{6}, \frac{6}{7}$ |
| 5) None of these | |

131. A circle and a rectangle have the same perimeter. The sides of the rectangle are

18 cm and 26 cm. What is the area of the circle?

- 1) 88 cm^2
- 2) 1250 cm^2
- 3) 154 cm^2
- 4) Cannot be determined
- 5) None of these

132. N number of persons decide to raise Rs 3 lakhs by equal contributions from each. If they contributed Rs 50 each extra, the contribution would be Rs 3.25 lakhs. How many persons are there?

- 1) 600
- 2) 400
- 3) 450
- 4) Cannot be determined
- 5) None of these

133. The difference between a number and its three-fifths is 50. What is the number?

- 1) 75
- 2) 100
- 3) 125
- 4) Cannot be determined
- 5) None of these

134. A tank is filled in 5 hours by three pipes A, B and C. The pipe C is twice as fast as B and B is twice as fast as A. How much time will pipe A alone take to fill the tank?

- 1) 35 hours
- 2) 25 hours
- 3) 20 hours
- 4) Cannot be determined
- 5) None of these

135. Milk contains 5% water. What quantity of pure milk should be added to 10 litres of milk to reduce this to 2%?

- 1) 5 litres
- 2) 7 litres
- 3) 15 litres
- 4) Cannot be determined
- 5) None of these

136. Starting with the initial speed of 30 km/hr, the speed is increased by 4 km/hour every two hours. How many hours will it take to cover a distance of 288 km?

- 1) 4
- 2) 6
- 3) 12
- 4) 8
- 5) None of these

137. With a uniform speed a car covers a distance in 8 hours. Were the speed increased by 4 km/hr the same distance

could be covered in $7\frac{1}{2}$ hours. What is the distance covered?

- 1) 640 km
- 2) 480 km
- 3) 420 km
- 4) Cannot be determined
- 5) None of these

138. A = 10% of x, B = 10% of y, C = 10% of x + 10% of y. On the basis of the above equalities, what is true in the following?

- 1) A is equal to B
- 2) A is greater than B
- 3) B is greater than A
- 4) Relation cannot be established between A and B
- 5) None of these

139. How many words can be formed from the letters of the word SIGNATURE so that the vowels always come together?

- 1) 720
- 2) 1440
- 3) 3600
- 4) 2880
- 5) None of these

140. In how many ways a committee consisting of 5 men and 6 women can be formed from 8 men and 10 women?

- 1) 266
- 2) 86400
- 3) 11760
- 4) 5040
- 5) None of these

Directions (Qns. 141-145): Study the following table carefully and answer the questions given below.

Percentage of malnourished children in Chile over the years

Year	Tested Number (in 1000s)	Percentage of the malnourished		
		Low	Moderate	High
1984	998	12.5	2.9	0.7
1985	1015	12.1	2.7	0.7
1986	1048	12.1	3.0	0.8
1987	1071	11.9	2.5	0.5
1989	1048	10.8	1.8	0.3
1990	1023	10.4	1.6	0.2
1991	1048	10.0	1.4	0.1
1992	1063	8.7	1.1	0.1
1993	1161	7.8	0.9	0.1

141. What is the difference between the total numbers of the malnourished children in the years 1991 and 1986?

- 1) 0
- 2) 46112
- 3) 22008
- 4) 41920
- 5) None of these

142. In which year was the percentage of the malnourished children the highest?

- 1) 1986
- 2) 1984
- 3) 1985
- 4) 1987
- 5) None of these

143. Which is true of the following?

- 1) Over the years, there was uniform fall in the percentage of high malnourished cases in comparison to the previous year.
- 2) Over the years, there was uniform fall in the percentage of moderate malnourished cases in comparison to the previous year.
- 3) Over the years, there was uniform fall in the percentage of low malnourished cases in comparison to the previous year.
- 4) Over the years, there was no rise in the percentage of high malnourished cases in comparison to the previous year.
- 5) Over the years, there was no rise in the percentage of low malnourished cases in comparison to the previous year.

144. The malnutrition level of how many children was high in the year 1987?

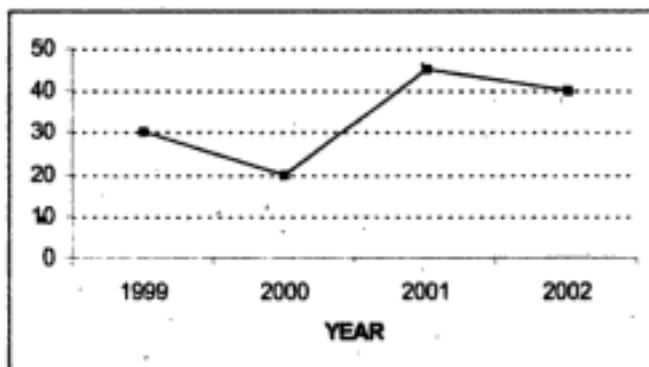
- 1) 600
- 2) 12745
- 3) 535
- 4) 5355
- 5) None of these

145. How many children were malnourished in 1993?

- 1) 10,02,168
- 2) 1,02,168
- 3) 10,216
- 4) 1,00,02,168
- 5) None of these

Directions (Qns 146 - 150): Study the information given in each of these questions to answer the questions.

Percent profit earned by a company over the years.



146. In which year is the profit amount the highest?

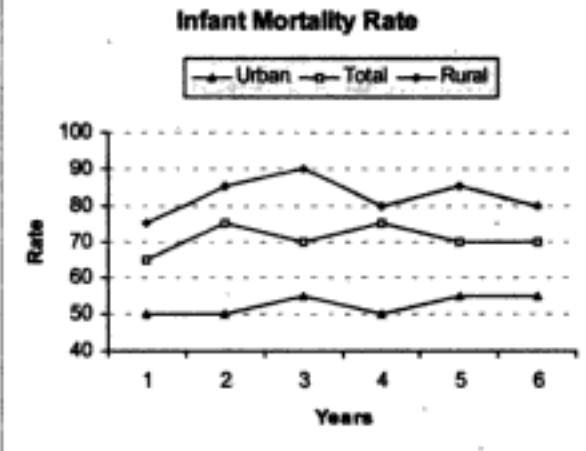
- 1) 2001
- 2) 2000
- 3) 2002
- 4) Cannot be determined
- 5) None of these

147. What is the approximate percentage of the literate out of the total population?



- 1) 69
- 2) 76
- 3) 41
- 4) 22

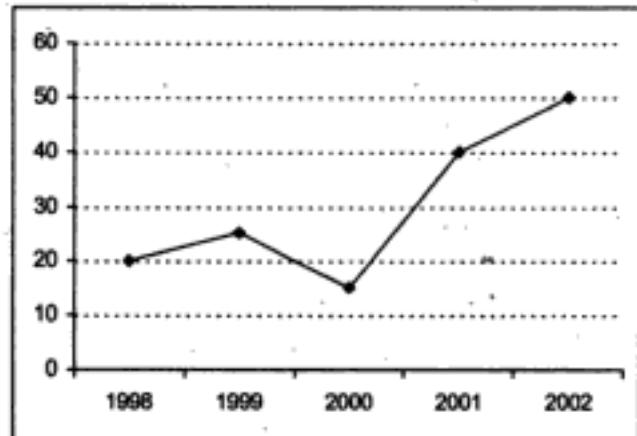
148.



Which of the following is NOT true?

1. The rate for rural area was always more than that for urban.
2. The total (aggregate for rural and urban was less than that of the rural)
3. There is a wide gap between the Infant Mortality Rates of rural and urban areas.
4. The trend of Infant Mortality Rate in terms of increase or decrease remained the same for urban and rural areas.
5. There were ups and downs in Infant Mortality Rates over the years.

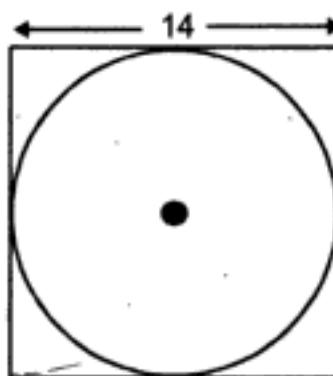
149. Production of a company over the years (in lakh units)



What is the highest percent increase over the previous year?

- 1) $266\frac{2}{3}$
- 2) 150
- 3) $166\frac{2}{3}$
- 4) 250
- 5) None of these.

150. Population of two states shown by a square and circle respectively (Equal to area in lakh units)



What is the difference between the populations of the two states?

- 1) 2800000
- 2) 4200000
- 3) 28000000
- 4) 9800000
- 5) None of these.

TEST OF REASONING

151. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- | | |
|-------|-------|
| 1) 49 | 2) 45 |
| 3) 79 | 4) 37 |
| 5) 65 | |

152. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- | | |
|------------|----------|
| 1) Horse | 2) Tiger |
| 3) Giraffe | |
| 4) Lion | |
| 5) Zebra | |

153. In a certain code OVER is written as '8974' and PRIORITY is written as '14384352'. How is REPORT written in that code?

- 1) 471945
- 2) 471845
- 3) 472845
- 4) 491845
- 5) None of these

154. If black is called 'brown', brown is called 'pink', pink is called 'white', white is called 'green', green is called 'red', red is called 'yellow' and yellow is called 'blue'; which of the following will be the colour of milk?

- 1) White
- 2) Green
- 3) Yellow
- 4) Blue
- 5) Red

- 155.** The positions of the second and the eighth digits of the number 39128564 are interchanged. Similarly the positions of the fourth and the fifth digits are interchanged. The positions of the first and the sixth digits are interchanged and the positions of the third and the seventh digits are interchanged. Which of the following will be the third digit to the left of 3 after the rearrangement?
- 1) 4 2) 6
3) 9 4) 8
5) 2
- 156.** How many such letters are there in the word BACKLASH each of which is as far away from the beginning of the word as far from the beginning of the English alphabet?
- 1) None 2) One
3) Two 4) Three
5) More than three
- 157.** If it is possible to make only one meaningful word with the first, the sixth, the seventh and the ninth letters of the word PROMENADE, which of the following will be the first letter of that word? If no such word can be formed, give 'X' as the answer. If only two such words can be formed, give 'Y' as the answer and if more than two such words can be formed, give 'Z' as the answer.
- 1) P 2) N
3) X 4) Y
5) Z
- 158.** Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
- 1) Chlorine 2) Sodium
3) Iodine 4) Potassium
5) Iron
- 159.** In a certain code 'MONETARY' is written as 'FOPNZSBU'. How is 'JOURNALS' written in that code?
- 1) KPVSTMBO 2) SVPKOBMT
3) SVPKRKZM 4) SVPKTMBO
5) None of these
- 160.** If rain means 'water', water means 'cloud', cloud means 'road', road means 'jungle', jungle means 'sky', sky means 'air', air means 'tree' and tree means 'flower'; where do the birds fly in?
- 1) Sky 2) Flower
3) Air 4) Tree
5) None of these
- 161.** How many such pairs of letters are there in the word CREDENTIAL each of which has as many letters between them in the word and in the same sequence as in the English alphabet?
- 1) None 2) One
3) Two 4) Three
5) More than three
- 162.** Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
- 1) Cabbage 2) Brinjal
3) Potato 4) Gourd
5) Turmeric
- 163.** Four out of the five given words have a definite kind of relationship with the word 'AUSTRALIA' while one is different. Your task is to find this odd-man out:
- 1) ASIA 2) AUSTRIA
3) TRAIL 4) RETAIL
5) LAST
- Directions (Qns. 164-165):**
- (i) 'P + Q' means 'P is mother of Q'
(ii) 'P - Q' means 'P is brother of Q'
(iii) 'P + Q' means 'P is sister of Q'
(iv) 'P x Q' means 'P is father of Q'
- 164.** Which of the following means T is niece of D?
- (A) D + M + T
(B) D + M + T + R
(C) D - M x T + R
- 1) Only (B) 2) only (C)
3) Both (A) and (B)
4) Both (B) and (C)
5) None of these
- 165.** Which of the following statements is superfluous to answer the above question?

- 1) Only (i)
- 2) Either (ii) or (iii)
- 3) Both (iii) and (iv)
- 4) Either (ii) or (iv)
- 5) None of these

Directions (Qns. 166-170): Study the following arrangement carefully and answer the questions given below:

ER15TD7FH2VAM9 USK4GW3Z8JN6IPY

166. Four of the following five are alike in a certain way based on their position in the above arrangement and so form a group. Which is the one that does not belong to that group?

- | | |
|----------|----------|
| 1) M U 2 | 2) 3 8 4 |
| 3) N I Z | 4) S G 9 |
| 5) 7 H 5 | |

167. Which of the following is fourth to the left of the seventeenth from the left end in the above arrangement?

- | | |
|------------------|------|
| 1) 3 | 2) W |
| 3) K | 4) M |
| 5) None of these | |

168. How many such vowels are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a consonant?

- | | |
|--------------------|--------|
| 1) None | 2) One |
| 3) Two | |
| 4) Three | |
| 5) More than three | |

169. If the order of positions of the last twelve elements in the above arrangement is reversed, which of the following will be the fourth towards right of the sixteenth from the left end?

- | | |
|------------------|------|
| 1) G | 2) 6 |
| 3) P | 4) W |
| 5) None of these | |

170. What should come in place of the question mark (?) in the following series based on the above arrangement?

R5D F2A 9S4 ?

- | | |
|------------------|----------|
| 1) G 3 8 | 2) W Z J |
| 3) W Z N | 4) 3 8 N |
| 5) None of these | |

Directions(Qns. 171-175): In each of the questions below are given three statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

171. Statements: 1. All glasses are windows.

2. Some windows are roads.
3. All roads are buildings.

Conclusions: I. Some buildings are windows.

- II. Some buildings are glasses.
- III. Some roads are glasses.

- 1) Only I follows
- 2) Only I and II follow
- 3) Only III follows
- 4) Only II follows
- 5) All follow

172. Statements: 1. Some boys are trees.

2. Some trees are jungles.
3. Some jungles are fruits.

Conclusions: I. Some fruits are trees.

- II. Some trees are boys.
- III. Some jungles are boys.

- 1) None follows
- 2) Only I follows
- 3) Only III follows
- 4) Only II follows
- 5) All follow

173. Statements: 1. Some pens are books.

2. All schools are books.
3. Some colleges are schools.

Conclusions: I. Some colleges are pens.

- II. Some pens are schools.
- III. Some colleges are books.
- 1) All follow
 - 2) Only I and II follow

- 3) Only II and III follow
 4) Only I and III follow
 5) None of these

174. Statements: 1. Some buses are houses.

2. All houses are taxis.
 3. All rickshaws are taxis.

Conclusions: I. Some rickshaws are houses.

- II. Some taxis are houses.
 III. Some taxis are buses.

- 1) None follows 2) Only I follows
 3) Only II follows
 4) Only II and III follow
 5) All follow

175. Statements: 1. All lions are tigers.

2. No goat is tiger.
 3. All horses are goats.

Conclusions: I. Some horses are lions.

- II. Some horses are tigers.
 III. No horse is lion.

- 1) Only either I or III follows
 2) Only III follows
 3) Only I follows
 4) Only II follows
 5) None of these

Directions (Qns. 176-180): Read the following information carefully and answer the questions given below:

In each question below a number is given. The digits in each of these numbers are to be codified as per the codes given below and the conditions given below the codes:

Digit: 9 5 3 1 4 7 8 2 6

Code: L M A K I R D T H

Conditions:

- (i) If both the first and the last digits of the number are odd numbers, both should be coded as 'V'.
 (ii) If both the first and the last digits of the number are even numbers, both should be coded as 'Z'.

176. 938542

- 1) VADMIZ 2) LADMIT
 3) ZADMIV 4) VADMIV
 5) None of these

177. 145695

- 1) VIMHLM 2) VIMHLZ
 3) ZIMHLM 4) KIMHLM
 5) None of these

178. 561872

- 1) VMHKDV 2) ZMHKDZ
 3) VMHKBR 4) MHKDRT
 5) None of these

179. 435798

- 1) ZAMRLZ 2) VAMRLV
 3) ZAMRLV 4) IAMRLD
 5) None of these

180. 623457

- 1) HTAMIR 2) HATIMR
 3) HTAIMR 4) HATMRI
 5) None of these

Directions (Qns. 181-185): Study the following information carefully and answer the given questions:

A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

- Input** : win 20 for 17 cake 38 60 height
Step I : win 17 20 for cake 38 60 height
Step II : win 17 height 20 for cake 38 60
Step III : win 17 height 20 for 38 cake 60 and Step III is the last step.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

181. Input: how tire 27 39 42 safe guard 65

Which of the following steps will be the last but one?

- 1) IV 2) V
 3) VI
 4) VII
 5) None of these

182. Step IV of an input is : ultra 12 style 29 82 64 road hand.

How many more steps are required to complete the rearrangement?

- 1) One
- 2) Two
- 3) Three
- 4) Four
- 5) No further step is required

183. Step II of an input is : yellow 20 care for on 31 43 82; Which of the following steps will be the last?

- 1) V
- 2) VI
- 3) VII
- 4) Cannot be determined
- 5) None of these

184. Step III of an input is: victory 17 town 79 63 35 bring home

Which of the following is definitely the input?

- 1) 17 victory 79 town 63 35 bring home
- 2) town victory 17 79 63 35 bring home
- 3) 79 victory 17 town 63 35 bring home
- 4) Cannot be determined
- 5) None of these

185. Input: ask me 25 over 39 67 night 43;

Which of the following will be the step III?

- 1) over 25 night 39 me 43 ask 67
- 2) over 25 night 39 me ask 67 43
- 3) over 25 night 39 ask me 67 43
- 4) over 25 night ask me 39 67 43
- 5) None of these.

Directions (Qns. 186-190): In the following questions, the symbols ©, \$, %, @ and # are used with the following meaning as illustrated below:

'P @ Q' means 'P is neither greater than nor equal to Q'

'P \$ Q' means 'P is not smaller than Q'

'P # Q' means 'P is neither smaller than nor greater than Q'

'P © Q' means 'P is not greater than Q'

'P % Q' means 'P is neither smaller than nor equal to Q'

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true?

Give answer 1) if only Conclusion I is true.

Give answer 2) if only Conclusion II is true.

Give answer 3) if either Conclusion I or II is true.

Give answer 4) if neither Conclusion I nor II is true.

Give answer 5) if both Conclusions I and II are true.

186. Statements: J # R, R % K, K @ D
Conclusions: I. K @ J II. D @ J

187. Statements: M © T, K % T, K @ N
Conclusions: I. N % M II. K % M

188. Statements: V \$ D, D © R, R % F
Conclusions: I. R % V II. V @ F

189. Statements: B @ E, E # S, S \$ Z
Conclusions: I. Z @ E II. E # Z

190. Statements: H % M, N © M, N \$ T
Conclusions: I. H # T II. H % T

Directions (Qns. 191-195): In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer 1) if only Assumption I is implicit.

Give answer 2) if only Assumption II is implicit.

Give answer 3) if either I or II is implicit.

Give answer 4) if neither I nor II is implicit.

Give answer 5) if both I and II are implicit.

- 191. Statement :** Manoj left for Delhi on Tuesday by train to attend a function to be held on Friday at his uncle's house at Delhi.
- Assumptions :**
- I. Manoj may reach Delhi on Wednesday.
 - II. Manoj may reach Delhi before Friday.
- 192. Statement :** The city bus transport corporation has decided to change routes of three buses plying between points A and B in the city to make them economically viable.
- Assumptions :**
- I. These buses may get more passengers on the revised routes.
 - II. Many people residing on the old routes now may not avail bus services.
- 193. Statement :** The government has decided to give cash awards of Rs 50,000 to meritorious students securing more than 90 per cent marks in the final year engineering examination.
- Assumptions :**
- I. The government has enough funds to give the cash awards to all those students who secure more than 90 per cent marks.
 - II. Many students may put in hard work to earn the cash award.
- 194. Statement :** "If you desire to sharpen your artistic skills, join our institute - the best in the country".
— An advertisement.
- Assumptions :**
- I. People possessing artistic skills may join the
- institute for improvement.
- II. No other institute offers such programs.
- 195. Statement :** The government has decided to reduce the import tax only for three months on set top boxes for Conditional Access System.
- Assumptions :**
- I. Majority of the subscribers may buy the set top boxes within three months.
 - II. The indigenously made set top boxes may be cheaper than the imported boxes after three months.

Directions (Qns.196 - 200). Study the following information carefully and answer the questions given below:

M, N, O, P, Q, R, T and V are eight sports persons. Three of them play cricket, two of them play hockey, one play badminton and two play volleyball. There are three lady members among them. No lady either play hockey or badminton and at least one lady plays the remaining two games. None of the games is played by only ladies. P plays badminton. Q's sister V plays cricket. M plays volleyball with T. N plays cricket and his brother R plays hockey. O and T are sisters.

196. Which of the following groups represents only males?

- 1) RQNPM
- 2) RQNMT
- 3) RONQT
- 4) PMNV
- 5) None of these

197. Which of the following pairs play hockey?

- 1) RO
- 2) RP
- 3) RQ
- 4) Data inadequate
- 5) None of these

198. Which of the following persons play cricket?

- 1) NRV
- 2) NOV
- 3) MPV
- 4) Data inadequate
- 5) None of these

199. Which of the following game(s) is played by V & T?

- 1) Hockey only
- 2) Hockey and cricket
- 3) Badminton and cricket
- 4) Volleyball and hockey
- 5) None of these

200. Which of the following combinations of persons play volleyball and cricket?

- | | |
|--------|-------|
| 1) MP | 2) MR |
| 3) RV | 4) MQ |
| 5) TO- | |

Direction (Qns. 201-210): Study the following information carefully and answer the questions given below:

Following are the criteria for appointing Assistant Vice President—Finance in an organization:

The candidate must—

- (i) be a graduate in Commerce with at least 55 per cent marks.
- (ii) be either a post-graduate in Commerce/ Management or a Chartered Accountant.
- (iii) have work experience of at least two years after completing post graduation/ professional qualification.
- (iv) not be more than 30 years of age as on 1.7.03.
- (v) have secured at least 40 per cent marks in the interview.

In the case of a candidate who have satisfied all other criteria except at—

- (a) (iv) above, but have post qualification work experience of more than five years, his/ her case is to be referred to Senior Vice President—Finance.
- (b) (ii) above, but is Cost Accountant and have at least three years post qualification experience, his/her case is to be referred to the President—Finance.

In each of the following questions, information about one candidate is provided. Based on the information provided and on the basis of the criteria and conditions mentioned above you have to take

one of the following courses of action. All the information are provided to you as on 1.7.03. You are not to assume anything other than the information provided in each question.

Mark answer 1) if the case is to be referred to President – Finance.

Mark answer 2) if the candidate is not to be admitted.

Mark answer 3) if the data provided are inadequate to take decision about the candidate.

Mark answer 4) if the candidate is to be admitted.

Mark answer 5) if the case is to be referred to Senior Vice President—Finance.

201. Suhas Hoskote is a post-graduate in Commerce. He has obtained first class in both graduation in Commerce and post-graduation examinations at the age of 28. He has been working since August 1998, after completing his post-graduation. He has secured 50 per cent marks in the interview.

202. Kailash Masaldan is a post-graduate in Management. He is a Commerce graduate and has secured 60 per cent marks in the interview. He has been working for the last three years after completing his post-graduation. He was born on 8th May 1974.

203. Mukesh Batra was born on 19th July 1976. He has secured 55 per cent marks in graduation in Commerce. He is a Cost Accountant as well. He has been working for the last four years. He has secured 45% marks in the interview.

204. Suresh Oberoi has secured 50 per cent marks in the interview. He has been working for the last six years after completing his post-graduation in Commerce. He was born on 6th June 1973. He has secured 60% marks in graduation.

205. Anita Modi has secured 45 per cent marks in the interview. She has obtained a post-graduate degree in management in the year 1997. She has been working since then. She has secured 60 per cent marks in her graduation in Commerce.

206. Pratik Sharma has been working for the last six years after completing his post-graduation in Management. He was born on 2nd February 1972. He has secured 60 per cent marks in graduation in Commerce and 40 per cent marks in the interview.
207. Prabhat Gore has been working for the last four years after completing his Cost Accountancy. He has secured 65 per cent marks in graduation in Commerce. He was born on 7th March 1976. He has secured 45 per cent marks in the interview.
208. Anita Parida is a post-graduate in Management. She has been working for the last three years after completing her post-graduation at the age of 26. She has secured 65 per cent and 45 per cent marks in graduation in Commerce and the interview respectively.
209. Richa Agrawal is a first - class Commerce graduate and also a Chartered Accountant. She was born on 15th April 1975. She has been working since August 2001.
210. Amit Saxena is a Chartered Accountant and has been working for the last four years after completing his education. He was born on 25th August 1975. He has secured 45 per cent marks in the interview and 60 per cent marks in his graduation in Commerce.

Direction (Qns. 211-215): Study the following information carefully and answer the questions given below:

Piyush, Anil, Subhash, Timir, Aminul, Joseph and Venkatesh are seven friends. They study in three engineering colleges A, B and C and in four branches of engineering— Mechanical, Chemical, Electrical and Electronics. At least one of them and not more than three of them study in any one of the branches. At least one of them and not more than four of them study in any one college. Anil studies Mechanical in College B. Piyush and Timir study in College A but they study different branches of engineering. Aminul studies Chemical in College

C along with only Subhash. Neither Joseph nor Venkatesh studies in College A. The only person who studies Electronics is in College C. Venkatesh studies Electrical. Piyush does not study Chemical. Timir studies the same branch with Anil. Two of them study Chemical.

211. Subhash studies which of the following branches?
- 1) Chemical
 - 2) Mechanical
 - 3) Electrical
 - 4) Electronics
 - 5) Data inadequate
212. Which of the following pairs of persons study Electrical?
- 1) Piyush, Venkatesh
 - 2) Subhash, Joseph
 - 3) Piyush, Subhash
 - 4) Timir, Anil
 - 5) None of these
213. In which college does Venkatesh study?
- 1) B
 - 2) C
 - 3) B or C
 - 4) Data inadequate
 - 5) None of these
214. In which college do three of them study?
- 1) A
 - 2) B
 - 3) C
 - 4) Both A and B
 - 5) None of these
215. Joseph studies which of the following branches?
- 1) Mechanical
 - 2) Chemical
 - 3) Electrical
 - 4) Data inadequate
 - 5) None of these
- Directions (Qns. 216-220):** In making decisions about important questions, it is desirable to be able to distinguish between 'strong' arguments and 'weak' arguments. 'Strong' arguments are those which are both important and directly related to the question. 'Weak' arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question.

Each question below is followed by two arguments numbered I and II. You have to decide which of the argument is a 'strong' argument and which is a 'weak' argument.

Give answer 1) if only argument I is strong.

- 2) if only argument II is strong.
- 3) if either I or II is strong.
- 4) if neither I nor II is strong.
- 5) if both I and II are strong.

216. Should only one company be allowed to run the transport system in any one big city?

Arguments: I. Yes, this will put an end to unhealthy competitions among different companies.
II. No, the commuter should be given a wider choice of transport system.

217. Should there be cap on per cent profit earned by any company in any given year?

Arguments: I. No, this is just not practicable.
II. Yes, the profit earned over and above the limit should be passed on to the employees.

218. Should the council of ministers once appointed be kept the same for the entire period intervening two elections?

Arguments: I. No, shuffling of ministers and portfolios is a healthy democratic process.

II. Yes, the ministers do not get a hold on their portfolio unless they are kept for a longer duration.

219. Should there be government control on electronic media for broadcasting news sensitive to security of the country?

Arguments: I. Yes, otherwise the national security will be breached through such news broadcasts.
II. No, the media companies should be given the freedom to decide the content of broadcasts.

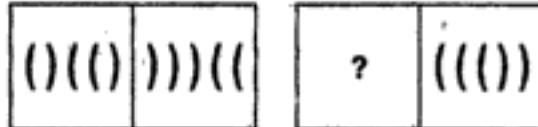
220. Should admission to all the professional courses in the country be made only through entrance tests?

Arguments: I. No, many deserving candidates securing high marks in their qualifying academic examinations do not perform well on such entrance tests.
II. Yes, the standard of examinations conducted by different Boards and Universities are not comparable and hence there is a need to conduct such entrance tests to calibrate them on a common yardstick.

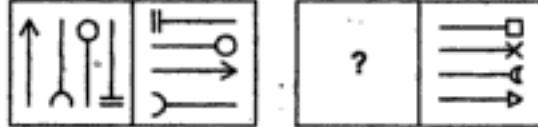
Directions (Qns. 221 - 225): The figure in the first unit of the problem figures bears a certain relationship to the second figure. Similarly one of the figures in the answer figures bears the same relationship to the second figure in the second unit of the problem figures. You are therefore to locate the figure which would fit in the place of the question mark.

PROBLEM FIGURES

221.

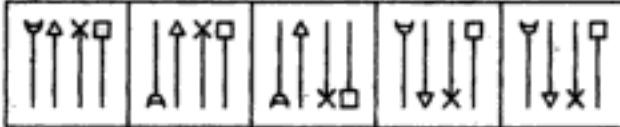


222.



ANSWER FIGURES

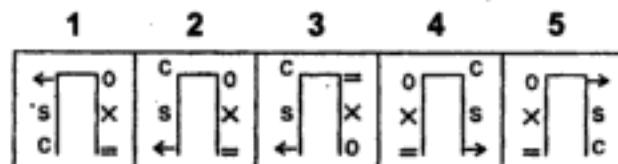
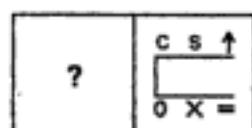
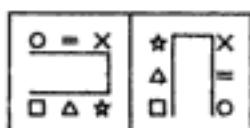
1 2 3 4 5



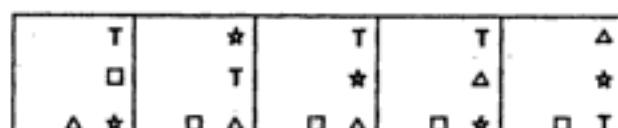
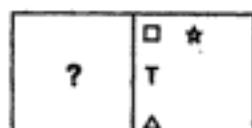
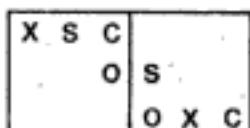
PROBLEM FIGURES

ANSWER FIGURES

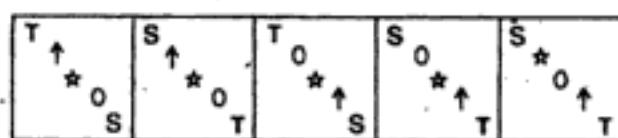
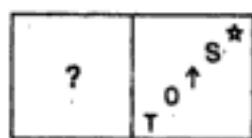
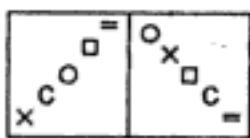
223.



224.

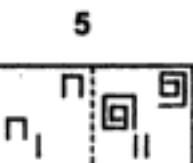
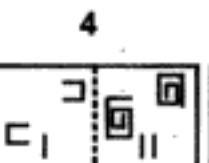
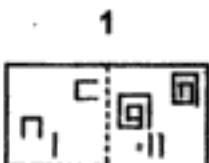
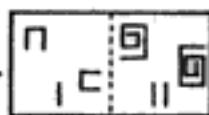


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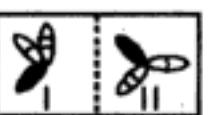
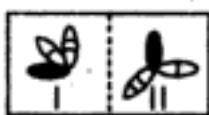


Directions (Qns. 226 - 230): In each of the following questions, a related pair of figures, (unnumbered) is followed by five numbered pair of figures. Out of these five, four have relationship similar to that in the unnumbered pair. Only one pair of figures does NOT have SIMILAR relationship. Select that pair of figures which does NOT have a SIMILAR relationship to that in the unnumbered pair. Number of that pair is your answer.

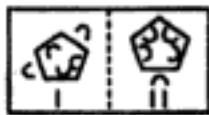
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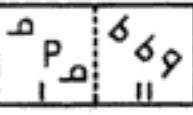
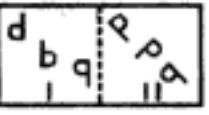
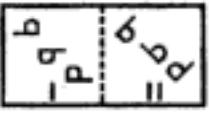
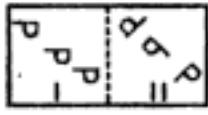
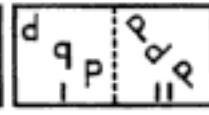
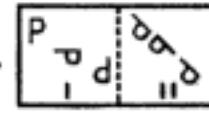
227.



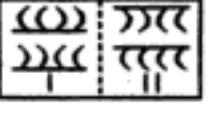
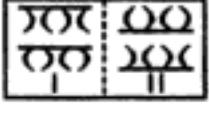
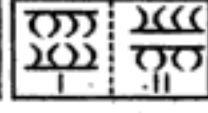
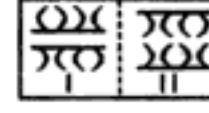
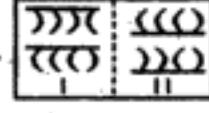
228.



229.



230.

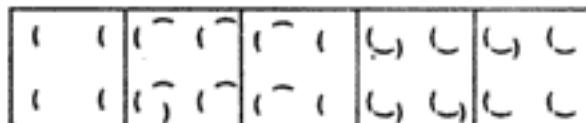
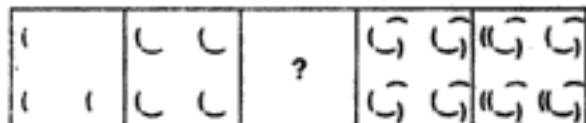


Directions (Qns. 231 - 235): In each of these questions there are two sets of figures. The figures on the left are Problem Figures (four figures and one question-marked space) and those on the right are Answer Figures indicated by number 1, 2, 3, 4, and 5. A series is established if one of the five Answer Figures is placed at the "question-marked space". Question Figures form a series if they change from left to right according to some rule. The number of the Answer Figure which should be placed in the question-marked space is the answer. All the five figures i.e. four Problem Figures and one Answer Figure placed in the question-marked space should be considered as forming the series.

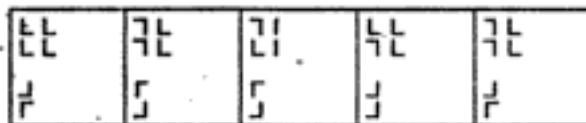
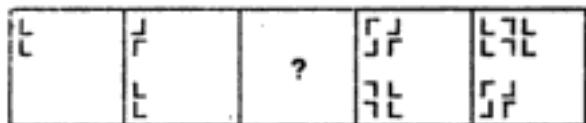
PROBLEM FIGURES**ANSWER FIGURES**

1 2 3 4 5

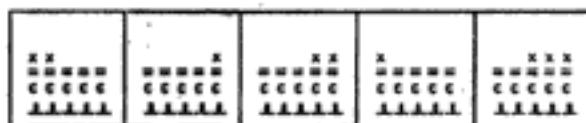
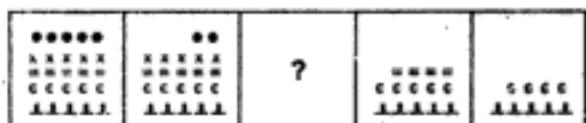
231.



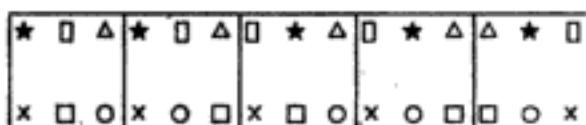
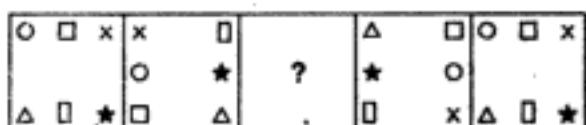
232.



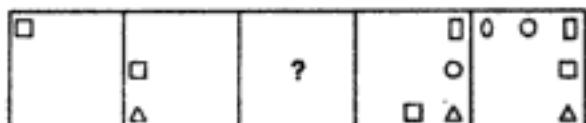
233.



234.



235.

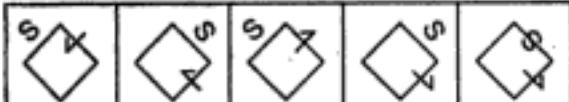
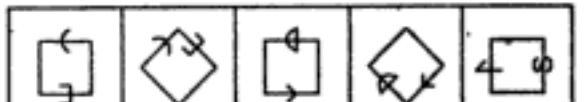


Directions (Qns. 236 - 250): In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued?

PROBLEM FIGURES**ANSWER FIGURES**

1 2 3 4 5

236.

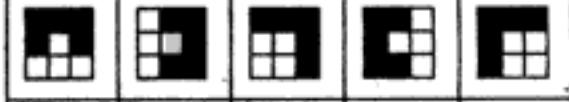
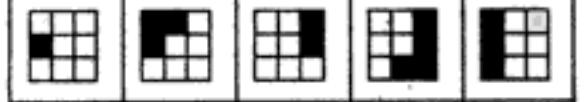


237.

o↑Sc C↑Os ↑SoC CS↑o s0↑c

CoS↑ oC↑S C↑So CoS↑ CoS↑

238.



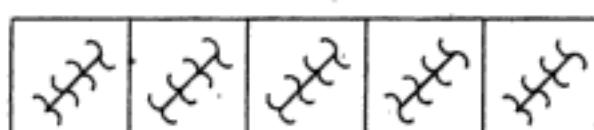
239.



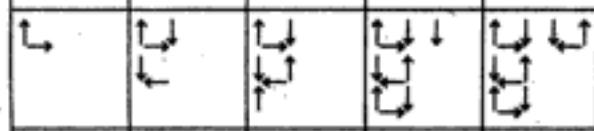
PROBLEM FIGURES

ANSWER FIGURES

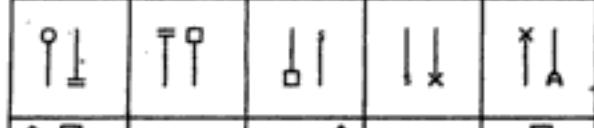
240.



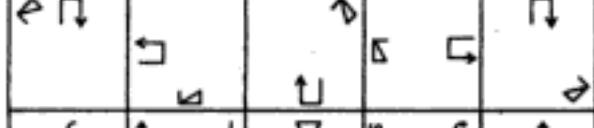
241.



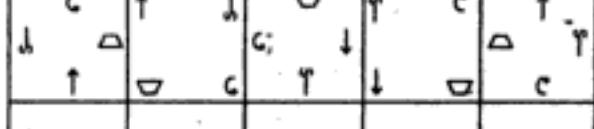
242.



243.



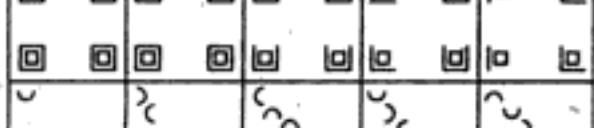
244.



245.



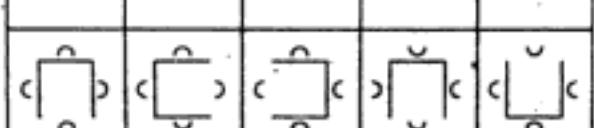
246.



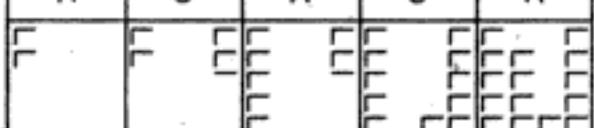
247.



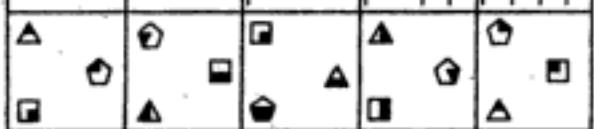
248.



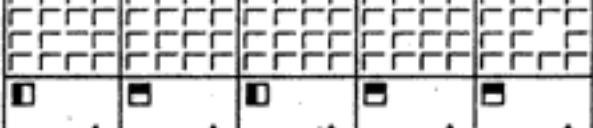
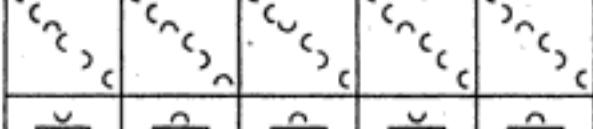
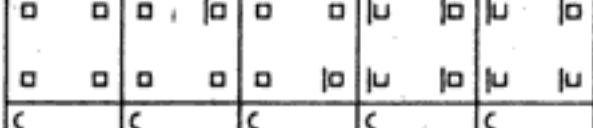
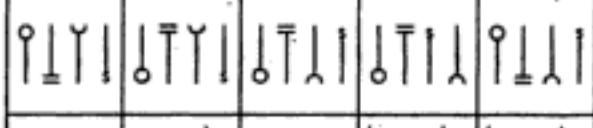
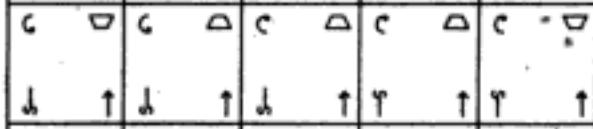
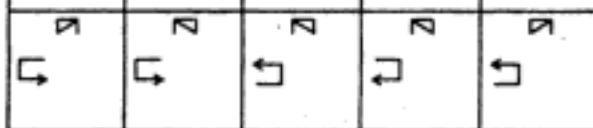
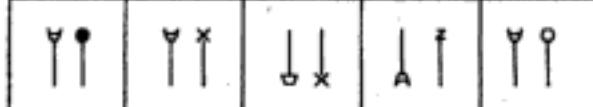
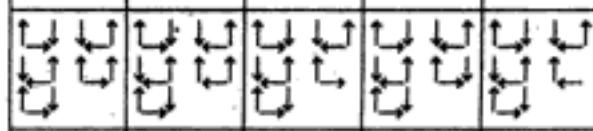
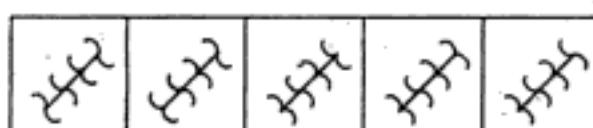
249.



250.



1 2 3 4 5



ANSWERS**GENERAL AWARENESS**

- | | | | | | | | | | |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. (1) | 2. (4) | 3. (2) | 4. (3) | 5. (2) | 6. (5) | 7. (5) | 8. (1) | 9. (5) | 10. (2) |
| 11. (5) | 12. (5) | 13. (5) | 14. (3) | 15. (1) | 16. (5) | 17. (4) | 18. (1) | 19. (5) | 20. (1) |
| 21. (3) | 22. (2) | 23. (4) | 24. (1) | 25. (2) | 26. (1) | 27. (4) | 28. (3) | 29. (3) | 30. (5) |
| 31. (3) | 32. (4) | 33. (1) | 34. (2) | 35. (4) | 36. (1) | 37. (3) | 38. (5) | 39. (2) | 40. (5) |
| 41. (4) | 42. (4) | 43. (1) | 44. (5) | 45. (4) | 46. (1) | 47. (3) | 48. (4) | 49. (4) | 50. (5) |

ENGLISH LANGUAGE

- | | | | | | | | | | |
|---------|-------------|---------|---------|---------|---------|---------|---------|---------|----------|
| 51. (5) | 52. (5); US | 53. (3) | 54. (2) | 55. (4) | 56. (2) | 57. (3) | 58. (1) | 59. (1) | 60. (4) |
| 61. (2) | 62. (3) | 63. (4) | 64. (2) | 65. (5) | 66. (3) | 67. (3) | 68. (5) | 69. (2) | 70. (1) |
| 71. (2) | 72. (1) | 73. (5) | 74. (3) | 75. (4) | 76. (4) | 77. (1) | 78. (2) | 79. (1) | 80. (1) |
| 81. (5) | 82. (3) | 83. (3) | 84. (5) | 85. (4) | 86. (2) | 87. (1) | 88. (2) | 89. (5) | 90. (4) |
| 91. (2) | 92. (3) | 93. (1) | 94. (5) | 95. (4) | 96. (1) | 97. (2) | 98. (3) | 99. (5) | 100. (4) |

QUANTITATIVE APTITUDE101. (4) **From I:**

$$\text{If } \sqrt{2304} = a$$

then $a = 48$ (Do not consider -48 as value of a)

Again, **From II:**

$$\text{If } b^2 = 2304$$

$$\text{then } b = \pm 48$$

Hence $a \geq b$.

102. (2) I. $12a^2 - 7a + 1 = 0$ II. $15b^2 - 16b + 4 = 0$

Sum of the two values of a , i.e. $(a_1 + a_2)$

$$= \frac{-(-7)}{12} = \frac{7}{12}$$

Similarly,

Sum of the two values of b ,

$$\text{i.e. } (b_1 + b_2) = \frac{-(-16)}{15} = \frac{16}{15}$$

$$\text{Since } \frac{7}{12} < \frac{16}{15}$$

Therefore, $a < b$.

Now check the equality of root

$$(12 \times 4 - 15 \times 1)^2 = \{12 \times (-16) - 15 \times (-7)\} \{(-7) \times 4 - (-16) \times 1\}$$

$$\Rightarrow 33^2 = \{-87\} \{-12\}$$

$\Rightarrow 1089 = 1044$, which is not true.

Therefore, our answer should be $a < b$.

103. (2) I. $a^2 + 9a + 20 = 0$

Break 9 as F_1 and F_2 , so that $F_1 \times F_2 = 20$ and $F_1 + F_2 = 9$.

$$\text{Therefore, } F_1 = 5, F_2 = 4$$

$$\text{Now one value of } a = \frac{-5}{1} = -5$$

$$\text{Other value of } a = \frac{-20}{5} = -4$$

II. $2b^2 + 10b + 12 = 0$

The two parts of 10, i.e. $F_1 = 6$ and $F_2 = 4$

$$\therefore \text{Value of } b = \frac{-6}{2} = -3$$

$$\text{and } \frac{-12}{6} = -2$$

Obviously $b > a$.

If general form of quadratic equation is $ax^2 + bx + c = 0$.

then split b into two parts, so that $b_1 + b_2 = b$ and $b_1 \times b_2 = a \times c$

Now say b_1 as F_1 and b_2 as F_2 . Then the values of 'x' will be

$$\frac{-F_1}{a} \text{ and } \frac{-c}{F_1}$$

$$\text{or } \frac{-F_2}{a} \text{ and } \frac{-c}{F_2}$$

104. (1) I. $3a + 2b = 14$

II. $a + 4b = 13$

Subtract equation I from equation II after multiplying II by 3.

We get $3a + 12b - 3a - 2b = 39 - 14$

$$\Rightarrow 10b = 25$$

$$\Rightarrow b = 2.5$$

Put value of b in equation II. We set $a + 4 \times 2.5 = 13$. Therefore, $a = 3$. Thus, $a > b$.

105. (5) I. $a^2 - 7a + 12 = 0$

Here, $F_1 = -4$ and $F_2 = -3$

$$\text{Now, values of } a = \frac{-(-4)}{1} = 4$$

$$\text{and } \frac{-12}{-4} = 3$$

II. $b^2 - 9b + 20 = 0$

Here $F_1 = -5$ and $F_2 = -4$

$$\text{Now, values of } a = \frac{-(-5)}{1} = 5$$

$$\text{and } \frac{-20}{-5} = 4$$

Thus $b \geq a$

106. (2) Here, $10^3 \times 100^3 + 999999999$

$$= 10^3 \times (10^2)^3 + 10^9$$

$$= 10^{3+6} + 10^9$$

$$= 10^9 + 10^9$$

Therefore, question mark will be replaced by 9.

107. (4) $134\% \text{ of } 3894 + 38.94\% \text{ of } 134$

$$= 134\% \text{ of } 3894 + 38945 \text{ of } 1.34$$

$$= 134\% \text{ of } 3894 + 1.34\% \text{ of } 3894$$

$$= 135.34\% \text{ of } 3894$$

$$= 5270.1396$$

$$= 5270$$

108. (5) $(21 + 99) \times (30 - 19.02)$

$$= 120 \times 10.98$$

$$= 120 \times 11 = 1320$$

109. (4) $\frac{2}{3} \times \frac{6}{8} \times \frac{2}{3} \times \frac{3}{5}$

$$= \frac{72}{72 \times 5} = \frac{1}{5} = 0.2$$

110. (1) $\sqrt{1000000.0000001}$

$$= \sqrt{1000000} = 1000$$

111. (3) $22.9782 + 0.002 + ? = 23$

$$\therefore ? = 23 - 22.9802$$

$$= 0.0198 = 0.02$$

112. (4) $21 + 3.7 \times 2.9$

$$= 21 + 3.7 \times 3$$

$$= 21 + 11.1 = 32.1$$

113. (3) $114 \ 115 \ 107 \ 134 \ 70 \ ?$

$$+ 1^3 - 2^3 + 3^3 - 4^3 + 5^3$$

Hence, question mark (?) will be replaced by 195.

114. (1) 2 6 33 49 174 210 ?

$$+2^2 +3^2 +4^2 +5^2 +6^2 +7^2$$

Hence, ? will be replaced by 553.

115. (4) 64 128 92 220 148 404 ?

See the bold part. It makes a series as follows.

$$\begin{array}{cccc} 64 & 92 & 148 \\ +28 & +56 & +112 \end{array}$$

Hence, ? will be replaced by 260.

116. (5) 2 21 138 705

$$\times 7 + 1 \times 7 | \times 6 \times + 2 \times 6 | \times 5 + 3 \times 5 | \times 4 + 4 \times 4$$

117. (5) 9 ? 20 31 51 82 133

Here look for clues from the right end. You come to know that 133 is the sum of the two consecutive previous elements, i.e. $133 = 82 + 51$

Similarly $82 = 51 + 31$; $51 = 31 + 20$; $31 = 20 + ?$. Obviously, ? will be replaced by 11.

118. (5) I alone is not sufficient because we do not know about the number of girls. Similarly, II alone is not sufficient because the given information merely gives the ratio of boys and girls (145 : 100). Now combining I and II, we get 90 = 45% of total girls.

Obviously, total strength = 245% of total girls

$$= \frac{90}{45} \times 245 = 490$$

Thus, both the statements are necessary.

119. (1) Suppose the digit at unit's place be x and the digit at unit's place by y.

Then the number = $10y + x$

From I: We get

$$x + y = 9 \quad \dots(1)$$

$$\text{and } x - y = 9 \quad \dots(2)$$

Obviously, the value of either x or y must be zero. But if we consider zero at ten's place then the value will be considered as a single digit number. Hence, the number is 90.

Statement II merely says $x > y$. With the help of this information we can't get the number.

120. (4) We know

$$P + 1 = P \left(1 + \frac{r}{100}\right)^t$$

where

P = Principal

I = Interest

t = Time for which amount is invested

r = Rate of compound interest (annual)

From I: $t = 4$ years

From II: I = Rs. 1491

Still we need the Principal. Hence, both I and II even together are not sufficient.

121. (1) We know the sum of the other two angles of triangle is 180° .

From I: We get the sum of other two angles is 130° . Obviously, the third angle is $(180^\circ - 130^\circ) = 50^\circ$.

From II: We can't say about the proportion of the third angle if we have been given the sum of the second and the third angles.

122. (4) Suppose the distance through the boat route be D km. And the speed of the boat in still water be a km/h and the speed of the current be b km/h.

Then

$$\text{From I: } \frac{D}{a+b} + \frac{D}{a-b} = 4$$

From II: $a = 5$ km/h

Still we need 'b'. Hence, both the statements even together are not sufficient.

123. (3) We know volume of a cylindrical tank

$$= \pi r^2 h$$

where r = radius of the base of the cylinder, and h = height of the cylinder.

In the question part, we have been given

$$h = 32 \text{ m.}$$

From I: Area of the base (πr^2) = 154 m²

From II: Diameter of the base ($2r$) = 14m.

Obviously, both the informations independently can fulfil our need.

124. (3) In the question part, we have been given:

Age of Aparna = 2 × age of Savita, i.e.

the present ratio of Aparna and Savita = 2:1

From I: Aparna Savita

$$2 : 1$$

$$+5_1 \quad 9 : 5_2$$

Difference of Aparna's and Savita's ages

$$= \frac{5_1 \times (9 - 5_2)}{5_2 \times 2 - 9 \times 1} \times (2 - 1)$$

$$= \frac{5 \times 4 \times 1}{1}$$

$$= 20 \text{ years.}$$

From II: Aparna Savita

$$2 : 1$$

$$-10 \quad 3 : 1_2$$

Difference of Aparna's and Savita's ages

$$= \frac{10 \times (3 - 1_2)}{3 \times 1_1 - 2 \times 1_2} \times (2 - 1_1)$$

$$= \frac{10 \times 2 \times 1}{3 - 2} = 20 \text{ years}$$

125. (2) We know the length of a train

= speed in m/sec × time (in seconds)
taken by train to cross a pole.

Suppose the speed of the train be x m/sec. and the Length L_1 .

Therefore, $L_1 = 10x$

$$\text{From I: } \frac{L_1 + L_2}{x + 80 \times \frac{5}{18}} = 22$$

$$\therefore \frac{10x + L_2}{x + 80 \times \frac{5}{18}} = 22$$

Still we need the value of L_2 to find the value of 'x'. Hence, I alone is not sufficient.

$$\text{From II: } x = \frac{108 \times 5}{18} = 25 \text{ m/sec.}$$

Obviously, $L_1 = 10 \times 25 = 250 \text{ m}$

Hence, only II alone is sufficient.

126. (5) We know

Area of a rectangle = Length × Breadth

Suppose the length and breadth of the rectangle be x and y respectively.

From I: $x - y = 5$.

Hence, I alone is not sufficient.

From II: Diagonal of the rectangle

$$\left(\sqrt{x^2 + y^2} \right) = 10$$

$$\text{i.e. } x^2 + y^2 = 100$$

Hence, II alone is not sufficient.

Now we know two unknowns can be obtained through two different equations.

Hence, both I and II together are sufficient.

127. (2) Any number, whether it is an odd or even integer, gives an even number when multiplied by an even number. Hence, I alone is not sufficient. But, II alone is sufficient because,

(i) odd integer \times odd number = odd number

(ii) even integer \times odd number = even number

With the help of statement II only we can say 'yes' as our answer.

128. (1) Suppose the consecutive odd numbers are:

$x, x + 2, x + 4, x + 6$ and $x + 8$.

Therefore, the required difference
 $= x + 8 - x = 8$

Note: While answering, the above question does not require the average of the five consecutive odd numbers.

129. (5) Suppose the two-digit number be $10x + y$. Then we have been given

$$10x + y - (10y + x) = 9$$

$$\Rightarrow 9x - 9y = 9$$

$$\Rightarrow x - y = 1$$

Hence, the required difference = 1.

Note: If the difference between a two-digit number and the number obtained by interchanging the digits is D, then the difference between the two digits of

$$\text{the number} = \frac{D}{9}$$

130. (4) $\frac{1}{3} = 0.33; \frac{2}{5} = 0.4; \frac{4}{7} = 0.55;$

$$\frac{3}{5} = 0.6; \frac{5}{6} = 0.83 \text{ and } \frac{6}{7} = 0.85$$

131. (5) We know

Perimeter of a rectangle = 2 (length + breadth)

$$= 2(26 + 18) = 88 \text{ cm}^2$$

Now, since perimeter of a circle = $2\pi r$

$$\text{Therefore } 2\pi r = 88 \text{ i.e. } r = \frac{44}{\pi}$$

Now, the area of the circle = πr^2

$$= \pi \times \frac{44}{\pi} \times \frac{44}{\pi}$$

$$= \frac{44 \times 44}{22} \times 7 = 616 \text{ cm}^2$$

132. (5) Required persons = $\frac{325000 - 300000}{50}$

$$= 500$$

133. (3) Suppose the number is N.

$$\text{Then } N = \frac{3}{5} N = 50$$

$$\Rightarrow \frac{2N}{5} = 50$$

$$\therefore N = \frac{50 \times 5}{2} = 125$$

134. (1) Here ratio of efficiencies of pipes A, B and C are as follows:

C	B	A
2	1	
	2	1
4	2	1

Suppose the efficiencies of pipes C, B and A are $4K, 2K$ and K .

Since, the tank is filled in 5 hours by the three pipes having combined efficiency equal to $7K$, the time required to fill the tank by A alone =

$$\frac{7K \times 5}{K} = 35 \text{ hours}$$

135. (3) Here required quantity of pure milk

$$= \frac{10 \times (5 - 2)}{2}$$

$$= \frac{10 \times 3}{2} = 15 \text{ litres}$$

- 136. (4)** Hour Speed Distance
 (km/h) travelled (in km)
- | | | |
|----------|----|------------|
| 2 | 30 | 60 |
| 2 | 34 | 68 |
| 2 | 38 | 76 |
| 2 | 42 | 84 |
| 8 | | 288 |
- Hence, the required time = 8 hours.
- 137. (2)** Here $\frac{D}{7.5} - \frac{D}{8} = 4$
 (where D is the distance in km)
 $\Rightarrow 0.5 D = 4 \times 8 \times 7.5$
 $\Rightarrow D = 2 \times 4 \times 8 \times 7.5 = 480$ km.
- 138. (4)** The given information gives no indication regarding the comparison of x and y.
- 139. (5)** The word SIGNATURE consists of nine letters comprising four vowels (A, E, I and U) and five consonants (G, N, R, T and S). When the four vowels are considered as one letter, we have six letters which can be arranged in 6P_6 ways i.e. $6!$ ways. Note that the four vowels can be arranged in $4!$ ways.
 Hence, required number of words = $6! \times 4!$
 $= 720 \times 24 = 17280$
- 140. (3)** Here, 5 men out of 8 men and 6 women out of 10 women can be chosen in ${}^8C_5 \times {}^{10}C_6$ ways, i.e. 11760 ways.
- 141. (2)** Total number of the malnourished children in the year
 (i) $1991 = (10.0 + 1.4 + 0.1)\% \text{ of } 1048000$
 $= 11.5\% \text{ of } 1048000$
 (ii) $1986 = (12.1 + 3.0 + 0.8)\% \text{ of } 1048000$
 $= 15.9\% \text{ of } 1048000$
- 142. (2)**
- | Year | Percentage of the malnourished |
|------|--------------------------------|
| 1984 | 16.1 |
| 1985 | 15.5 |
| 1986 | 15.9 |
| 1987 | 12.9 |
| 1989 | 12.9 |
| 1990 | 12.2 |
| 1991 | 11.5 |
| 1992 | 9.9 |
| 1993 | 8.8 |
- 143. (5)** Reject 1) and 4) because we see that the percentage of high malnourished cases increases to 0.8 from 0.7 in the year 1986.
 Reject 2) because we see that the percentage of moderate malnourished cases increased from 2.7 to 3.0 in the year 1986.
 Reject 3) because no such fall is witnessed during the years 1985 & 1986.
 Hence, select 5) by elimination.
- 144. (4)** Number of required children
 $= 0.5\% \text{ of } 1071000$
 $= \frac{5 \times 1071000}{1000} = 5355$
- 145. (2)** The required malnourished children in 1993
 $= (7.8 + 0.9 + 0.1)\% \text{ of } 1161000$
 $= 8.8\% \text{ of } 1161000$
 $= 102168$

146. (4) We can't get the absolute amount of profit with the help of graph given.

147. (3) Required percentage

$$= \frac{169}{(169 + 245) \times 100} \\ = 40.82\% = 41\%$$

148. (4)

149. (3) The highest percentage increases is witnessed in the year 2001 with respect to the year 2000. See the rise in the line from the year 2000 to the year 2001.

Now, the required percentage increase

$$= \frac{40 - 15}{15} \times 100$$

$$= \frac{25}{15} \times 100 = 166 \frac{2}{3}\%$$

150. (2) The required difference (in lakh units)

$$= 14 \times 14 - \frac{22}{7} \times 7 \times 7$$

$$= 14 \times 14 - 11 \times 14$$

$$= 14 \times 3 = 42$$

TEST OF REASONING

151. (5) In all others, the second digit of the number is higher than the first one.

152. (1) All the others are wild animals.

153. (2) 154. (4)

155. (2) The new arrangement will be 54682319.

156. (3) C and H.

157. (5) PANE, NAPE, NEAP and PEAN.

158. (5) Iron is a metal, all the others are chemical elements.

159. (4) Write first four letters in reverse order followed by the next four in reverse order ENOMYRAT. The next letter from alphabet is the code letter, hence JOURNALS would be RUOJSLAN coded as SVPKTMBO.

160. (2)

161. (5) There are four pairs CE, DE, EL and CL.

162. (5) All the others are vegetables.

163. (4) In all the others, the letters are from the main word, this one has an 'E' which is not in the main word.

164. (4) In (a), the sex of T is not established.

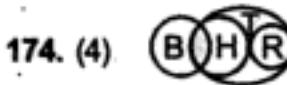
165. (2) 166. (4) 167. (4) 168. (3)

169. (5) It would be I.

170. (2) One letter is skipped in sets as well as in the series.



Only III follows



176. (2) 177. (5) 178. (4) 179. (1)

180. (3)

(181 to 185): In the given illustration, you will see that one word and one number is shifted alternately so as to arrange the numbers in ascending order from left and words alphabetically from the right, the pattern being one word and one letter.

181. (5) The answer would be III.

	low	tire	27	39	42	safe	guard 65.
Step I:	<u>tire</u>	low	27	39	42	safe	guard 65.
Step II:	tire	<u>27</u>	how	39	42	safe	guard 65.
Step III:	tire	27	<u>safe</u>	how	39	42	guard 65.
Step IV:	tire	27	safe	39	how	42	quard 65.

182. (2)	Step IV:	ultra	12	style	29	82	64	road	hand
	Step V:	ultra	12	style	29	<u>road</u>	82	64	hand
	Step VI:	ultra	12	style	29	road	64	hand	<u>82</u>

183. (1)	Step II:	yellow	20	care	for	on	31	43	82
	Step III:	yellow	20	<u>on</u>	care	for	31	43	82
	Step IV:	yellow	20	on	<u>31</u>	care	for	43	82
	Step V:	yellow	20	on	31	for	43	care	82

184. (3)	79	victory	17	town	63	35	bring	home
Step I:	<u>victory</u>	79	17	town	63	35	bring	home
Step II:	victory	<u>17</u>	79	town	63	35	bring	home
Step III:	victory	17	<u>town</u>	79	63	65	bring	home

185. (4)	Step I:	<u>over</u>	ask	me	25	39	67	night	43
	Step II:	over	<u>25</u>	ask	me	39	67	night	43
	Step III:	over	25	<u>night</u>	ask	me	39	67	43

186. (1) 187. (5) 188. (4) 189. (3) 200. (5)

190. (2) **201. (2)** One month less in experience.

191. (2) We do not know the place from where he started. 202. (3) Percentage of graduation is not mentioned.

192. (5) **193.** (5) **194.** (1) **195.** (3) **204.** (5) Over age, but fulfills other qualifications

(196 to 200): 205 (2) - Age not mentioned

Hockey	Badminton	Cricket	Volley-ball	206. (5)	Same as 54.
R (Man)	P (Man)	V (Lady)	M (Man)	207. (1)	Cost Accountancy.
Q (Man)		N (Man)	T (Lady)	208. (4)	All requirements are fulfilled.
		O (Lady)		209. (2)	Experience is less.
196. (1)	197. (3)	198. (2)	199. (5)	210. (4)	Same as 58.

(211 to 215):

	Piyush A Electrical	Anil B Mech.	Subhash C Chem.	Timir A Mech.	Aminul C Chem.	Joseph C Electronics	Venkatesh C Electrical								
211.	(1)	212.	(1)	213.	(2)	214.	(3)	215.	(5)	216.	(2)	217.	(1)	218.	(5)
219.	(1)	220.	(2)	221.	(5)	222.	(1)	223.	(2)	224.	(3)	225.	(1)	226.	(4)
227.	(3)	228.	(2)	229.	(3)	230.	(2)	231.	(4)	232.	(1)	233.	(5)	234.	(1)
235.	(3)	236.	(4)	237.	(4)	238.	(5)	239.	(2)	240.	(1)	241.	(4)	242.	(1)
243.	(5)	244.	(3)	245.	(5)	246.	(2)	247.	(5)	248.	(4)	249.	(2)	250.	(5)

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Original Question Paper – Held in July 2002

GENERAL AWARENESS

1. A joint session of the Rajya Sabha and Lok Sabha was summoned to discuss which of the following recently?
 - 1) POTO
 - 2) Reservation of seats for women in the Lok Sabha
 - 3) Budget for 2002-03
 - 4) Panchayat elections through Central Election Commission
 - 5) None of these
2. The XVII Commonwealth Games will be organised in July-August 2002 in _____.
 - 1) New Delhi 2) Sydney
 - 3) Manchester 4) Victoria
 - 5) Kuala Lumpur
3. India recently signed an extradition treaty with which of the following European countries after a six-year long negotiations?
 - 1) United Kingdom 2) Germany
 - 3) Portugal 4) France
 - 5) None of these
4. In a bid to fight terrorism, which of the following two countries signed a historic disarmament pact recently?
 - 1) Russia-Japan 2) USA-Germany
 - 3) Germany-Russia 4) Russia-USA
 - 5) USA-France
5. As per the ruling given by the Supreme Court of India, the candidates for the Lok Sabha & Assembly elections will be required to disclose their
 - A) Educational qualifications
 - B) Assets
 - C) Antecedents
 - 1) Only A 2) Only B
 - 3) Only C 4) Only A & B
 - 5) All the three A, B & C
6. 'East Timor' which became a new independent nation was earlier a part of _____.
 - 1) Myanmar 2) China
 - 3) South Africa 4) Indonesia
 - 5) Ethiopia
7. Dollar's Purchasing Power Parity (PPP) per capita is highest in _____.
 - 1) India 2) China
 - 3) S. Korea 4) Malaysia
 - 5) Bangladesh
8. Which of the following is NOT TRUE about President Pervez Musharraf who won the referendum in Pakistan?
 - A) He got about 60% votes.
 - B) He will remain as President for next three years.
 - C) About 40-50% of the eligible 70 million voters participated in the referendum.
 - 1) Only A 2) Only B
 - 3) Only C 4) Only A & B
 - 5) Only A & C
9. The 55th Cannes International Film Festival dubbed which of the following Indian Cine Stars as "Prince of Bollywood"?
 - 1) Amitabh Bachchan
 - 2) Dilip Kumar
 - 3) Raj Kapoor 4) Shahrukh Khan
 - 5) None of these
10. Ms. Mayawati, who was recently in news, is from which of the following political parties?
 - 1) Bahujan Samaj Party
 - 2) Samajwadi Party
 - 3) Lok Dal
 - 4) Bhartiya Janata Party
 - 5) None of these

- 11. The third SAARC Ministerial Conference on Poverty Alleviation was held recently in**
- Kathmandu
 - New Delhi
 - Islamabad
 - Dhaka
 - None of these
- 12. Who amongst the following is the recipient of the 2001 Saraswati Award?**
- Lata Mangeshkar
 - Pt. Jasraj
 - Kumar Sanu
 - Asha Bhonsle
 - None of these
- 13. Which of the following is NOT TRUE about the two-day All India Conference of Heads of Panchayats held recently?**
- The Conference was held in Bhubaneshwar in April 2002.
 - The Sarpanchs of the Panchayat are now equivalent to the Members of the Parliament
 - The Conference was inaugurated by the Prime Minister Vajpayee.
- Only A
 - Only B
 - Only A & B
 - Only C
 - Only A & C
- 14. The International Day for Elimination of Racial Discrimination is observed on**
- March 21
 - April 21
 - May 21
 - June 21
 - August 21
- 15. What was India's food-grain export during 2001-02 (approx. in lakh tons)?**
- 76
 - 80
 - 85
 - 90
 - 96
- 16. The 2nd SAARC Gold Cup Championship was won by which of the following teams?**
- Pakistan
 - Nepal
 - Bangladesh
 - India
 - Bhutan
- 17. The population of which of the following countries is reducing very fast and may get reduced to half of present by 2050?**
- China
 - England
 - Israel
 - Russia
 - None of these
- 18. In terms of the percentage, what is the total of the National Highways in the entire network of roads in India?**
- 5%
 - 2%
 - 17%
 - 24%
 - 33%
- 19. India is helping which of the following Asian countries in setting up Software Tech Parks?**
- Bangladesh
 - Bhutan
 - China
 - Myanmar
 - None of these
- 20. Koneru Humpy is associated with which of the following areas?**
- Politics
 - Games & Sports
 - Music
 - Science & Technology
 - None of these
- 21. India has recently purchased 8 gun-locating radars from _____**
- Russia
 - USA
 - Germany
 - France
 - Switzerland
- 22. Why was Sri Manohar Joshi recently in news?**
- He has taken over as the new Chief Minister of Maharashtra
 - He is the new Governor of Gujarat
 - He is our new Ambassador to the USA
 - He has taken retirement from active politics
 - None of these
- 23. Which of the following is true about Justice B.N. Kirpal who was recently in news?**
- He has taken over the charge of the Attorney General of India
 - He will be the new Chief Justice of India
 - He is the new Vice-President of India
 - He is nominated as a judge in the International Court of Justice
 - None of these
- 24. Which of the following will be the Cash Reserve Ratio of banks w.e.f. June 15, 2002?**
- 5%
 - 5.5%

- 3) 6% 4) 6.5%
 5) None of these
- 25. As per the estimates of the Reserve Bank of India the growth rate during 2002-03 would be in the range of _____**
- 1) 5 - 5.5% 2) 5.5 - 6%
 3) 6 - 6.5% 4) 6.5 - 7%
 5) 7 - 7.5%
- 26. Which of the following is TRUE about the debate on the situation of Gujarat held in the Parliament recently?**
- A) The NDA government got 281 votes while opposition got only 194 votes.
 B) The debate continued for about 16 hours.
 C) The motion was put up by the NDA Govt. itself.
- 1) Only A & B 2) Only B
 3) Only B & C 4) Only A
 5) Only C
- 27. Who amongst the following is the author of the book "Empire Falls", which was in news recently?**
- 1) Diane McWhorter
 2) Richard Russo 3) Suzan Lori
 4) Ruth Handler 5) None of these
- 28. The dairy products now attract customs duty at the rate of _____**
- 1) 15% 2) 25%
 3) 30% 4) 35%
 5) 40%
- 29. Which of the following is the correct description of 'BrahMos', the acronym for Brahmaputra-Moscow?**
- A) It is a joint project of India and Russia wherein Russia will help India in controlling the flooding of river Brahmaputra.
 B) It is the name of the project undertaken by India and Russia in the field of space research.
 C) This is the name of the supersonic anti-ship cruise missile developed jointly by India and Russia.
- 1) Only A 2) Only B
 3) Only B & C 4) Only C
 5) Only A & C
- 30. Which of the following is NOT TRUE as per the National Human Development report released recently?**
- A) The human development index improved annually at 4.3 percent in the 1980s but only 2.4 percent in 1990s.
 B) Goa was found to be at the top in many of the indicators.
 C) Gender Disparities have declined almost in all states.
 D) The quality of life in Kerala has improved a lot.
- 1) Only A 2) Only B
 3) Only A & B 4) Only C & D
 5) None of these
- 31. Which of the following is the first transgenic or genetically engineered crop in India?**
- 1) Bt-cotton
 2) C-40 potato
 3) Alphonso mangoes
 4) T-26 Tea
 5) None of these
- 32. The Videsh Sanchar Nigam Ltd. is now owned by which of the following industrial houses?**
- 1) Birla Group of Industries
 2) Hindustan Lever
 3) Reliance
 4) Tata Group of Industries
 5) None of these
- 33. FICCI has recently opened its overseas office in**
- 1) China
 2) Bangladesh
 3) France
 4) Germany
 5) Singapore
- 34. A special financial package of Rs. 6165 crore was announced by the Prime Minister to help**
- 1) Gujarat
 2) Punjab
 3) Andhra Pradesh
 4) Jammu & Kashmir
 5) Manipur

- 35. Why was Mr. V. Nambiar recently in news?**
- 1) He is the new President of India
 - 2) He will be the new Vice President of India
 - 3) He will be our permanent representative in UNO
 - 4) He is the chairperson of the new Finance Commission
 - 5) None of these
- 36. Which of the following countries became the first country to adopt Euthanasia (mercy killing for those suffering from incurable diseases)?**
- 1) USA
 - 2) Britain
 - 3) Netherlands
 - 4) Australia
 - 5) None of these
- 37. According to the survey conducted by the Economic Times, which of the following is the cheapest city to live in?**
- 1) Kolkata
 - 2) Patna
 - 3) Chennai
 - 4) New Delhi
 - 5) Hyderabad
- 38. The Earth Summit in September 2002 will be organised at**
- 1) Johannesburg
 - 2) Durban
 - 3) Sun City
 - 4) Manila
 - 5) None of these
- 39. After disinvestments of the Indian Petrochemicals Corporation, the 26% stake in the company will be of**
- 1) Tata
 - 2) Reliance
 - 3) Aditya Birla Group
 - 4) Goenka Group
 - 5) None of these
- 40. The G.D.P. growth for the Ninth Plan period stood at which of the following levels?**
- 1) 5%
 - 2) 5.4%
 - 3) 6%
- 41. Mr. Jacques Chirac, who was recently in news, is the new**
- 1) Prime Minister of Germany
 - 2) President of France
 - 3) Prime Minister of Korea
 - 4) President of East Timor
 - 5) Prime Minister of Uganda
- 42. Ms. Anjali Vedpathak won a silver medal in which of the following championships recently?**
- 1) ISSF World Cup Shootings
 - 2) ISSF World Cup Athletics
 - 3) ISSF World Cup Swimming
 - 4) World Cup of Wrestling
 - 5) None of these
- 43. Mr. Yasser Arafat, who was in news recently, was held captive by which of the following?**
- 1) Israeli forces
 - 2) Palestine forces
 - 3) UN Peacekeeping forces
 - 4) US forces
 - 5) None of these
- 44. Mr. Hun Sen, who was in news recently, is the**
- 1) King of Cambodia
 - 2) President of Cambodia
 - 3) Prime Minister of Cambodia
 - 4) Foreign Minister of Cambodia
 - 5) Prime Minister of Myanmar
- 45. Which of the following is NOT a part of the Exim Policy 2002-07?**
- A) It aims to achieve a 10% share in global exports by 2007.
 - B) All items in which India is self-sufficient are not allowed to import.
 - C) Permission is given to sell goods freely in domestic market in electronic hardware technology parks.
- 1) Only A
 - 2) Only A & B
 - 3) Only C
 - 4) Only B & C
 - 5) Only A & C

- 46. The Minimum Support Price of wheat for the current financial year is fixed at Rs. _____ per quintal.**
- 580
 - 600
 - 610
 - 620
 - 640
- 47. Which of the following statements is TRUE about the political situation in Venezuela?**
- There was a coup in which President Chavez was thrown out in April 2002.
 - The reforms introduced by the Chavez Govt. are not getting support of the public.
 - Chavez again managed his 'come-back' and is now the President of Venezuela.
- Only A
 - Only B
 - Only C
 - Only A & C
 - Only A & B
- 48. Who amongst the following was the chairperson of the National Commission to Review the working of the constitution (NCRWC)?**
- Justice A.R. Ahmadi
 - Sri Pramod Mahajan
- 49. Which of the following States attracted maximum foreign direct investment in terms of percentage of total direct investment during 1991-2001?**
- Maharashtra
 - Delhi
 - Tamil Nadu
 - Kerala
 - None of these
- 50. Which of the following projections made by the World Trade Organisation pertaining to the World Trade is NOT TRUE?**
- The World Trade has declined by 14% in the year 2001.
 - The World Trade has improved by 14% in the year 2001.
 - The World Trade recorded a growth of 6% during the year 2001.
- Only A
 - Only B
 - Only C
 - Only A & B
 - All the three A, B & C are not true

ENGLISH LANGUAGE

Directions (Qns. 51-60): In the following passage there are blanks each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word that fits the blank.

In these days of economic liberalisation, globalisation, etc. materialistic values have assumed ... (51) ... importance. Money, physical comforts and luxuries are the most sought after aspects. There has been ... (52) ... competition. Such competition ... (53) ... undue stress. The stress leads to ... (54) ... of health of the people. Indian culture has ... (55) ... its striking uniqueness, as against the Western culture, in the fact that there is a ... (56) ... place for spiritualism in our value system in all walks of life. The spirituality is a very ... (57) ... force which helps us in maintaining our physical and mental health. It gives us ... (58) ... to cope with the stress. Westerners have now ... (59) ... the importance of spirituality and, therefore, they have started ... (60) ... us in the matter of spirituality.

- | | |
|-------------------|------------------|
| 51. 1) usual | 2) little |
| 3) tangible | 4) least |
| 5) greater | |
| 52. 1) critical | 2) unhealthy |
| 3) unequalled | 4) no |
| 5) absolute | |
| 53. 1) releases | 2) deserves |
| 3) generates | 4) demonstrates |
| 5) suppresses | |
| 54. 1) neglect | 2) illness |
| 3) generation | 4) deterioration |
| 5) encroachment | |
| 55. 1) maintained | 2) illustrated |
| 3) marginalised | 4) bestowed |
| 5) forsaken | |
| 56. 1) vast | 2) brief |
| 3) formal | 4) clean |
| 5) distinct | |

- | | |
|--------------------|--------------|
| 57. 1) dormant | 2) dedicated |
| 3) vital | 4) common |
| 5) dynamic | |
| 58. 1) strength | 2) tips |
| 3) clearance | 4) sermons |
| 5) ideals | |
| 59. 1) informed | 2) narrated |
| 3) intensified | 4) realised |
| 5) invented | |
| 60. 1) encouraging | 2) imitating |
| 3) blaming | 4) preaching |
| 5) assuming | |

Directions (Qns. 61-70): In each of these questions, two sentences are given. These two sentences are to be combined into a single sentence without changing their meaning. Three probable starters of the combined sentence are given as (A), (B) and (C). Any one or more or none of them may be correct. Find out the correct starter(s) and accordingly select your answer from among the given five answer choices.

- | | |
|---|---|
| 61. It is very cold here. You must carry warm clothes with you. | A) Since you must |
| | B) As it is very |
| | C) If it is very |
| | 1) Only A 2) Only B |
| | 3) Only C 4) A and C only |
| | 5) B and C only |
| 62. You must sign your railway pass, write your name and age on it. According to the railway authorities, it becomes valid only after that. | A) To make your railway pass valid, the railway authorities should |
| | B) Without validating your railway pass, you cannot sign |
| | C) To validate your railway pass, you must |
| | 1) Only A 2) Only B |
| | 3) Only C 4) A and B only |
| | 5) B and C only |

- 63. The doctor says that Ramesh has lost his immunity. Therefore, he is vulnerable to any disease.**
- A) Ramesh's loss of immunity
 B) Because of his vulnerability to his
 C) His vulnerability to any disease
 1) Only A
 2) Only B
 3) Only C
 4) Only A and C
 5) A and B only
- 64. How much you speak is less important. What is more important is how relevant you speak.**
- A) How relevant you speak is
 B) How much you speak is as important
 C) How relevant you speak is not as important
 1) Only A
 2) Only B
 3) Only C
 4) All the three
 5) None of these
- 65. You must submit a copy of your ration card. Only then your application for telephone connection will be considered.**
- A) Unless you submit
 B) Unless your application for
 C) Without your application for
 1) Only A
 2) Only B
 3) Only C
 4) Only A and B
 5) None of these
- 66. You need two tickets? Please stand in the queue.**
- A) If you need
 B) In case you need
 C) Should you need
 1) Only A and B
 2) Only B and C
 3) Only A and C
 4) All the three
 5) None of these
- 67. The quality of the fabric was not impressive. We changed our plan of purchasing.**
- A) The quality of the fabric being
 B) We changed our
 C) In spite of the unimpressive
 1) Only A and B
 2) Only B and C
 3) Only C
 4) Only A
 5) All the three (A), (B) and (C)
- 68. Madhuri has been consistent in her studies. Her performance in the examination was nothing else but excellent.**
- A) Despite being consistent in her studies
 B) Madhuri's performance in the examination was not excellent because
 C) Because Madhuri was only consistent and not intelligent, her performance
 1) Only A
 2) Only B and C
 3) Only A and C
 4) All the three (A), (B) and (C)
 5) None of these
- 69. Don't add so much chilly powder to the soup. Consumers are only small children.**
- A) Because small children do not allow chilly powder....
 B) Since small children do not consume more soup....
 C) Adding more chilly powder to soup makes the small children like the
 1) None
 2) A Only
 3) B Only
 4) C Only
 5) A and C only
- 70. He always delays in taking any action. It makes others suffer a lot.**
- A) His taking action on time makes....
 B) Others suffer a lot because of
 C) On account of his procrastination
 1) A, B and C
 2) A and B only
 3) B and C only
 4) A and C only
 5) None of these

Directions (Qns. 71-80): In each of these questions, a sentence with two words/group of words is given in italic. One of them or both may have certain error. You have to find out the correct word or group of words from among the three choices (A), (B) and (C) given which can replace the wrong word/group of words to make the sentence grammatically correct. If the sentence is correct as it is, mark (5) i.e. NCR (No Correction Required) as your answer.

71. Our firm determination '*had*' due impact on them and they *will be changed* their decision.

- A) having have changed
- B) emphasised. will be changed
- C) had changed
- 1) A only
- 2) B only
- 3) C only
- 4) Either A or C
- 5) NCR

72. Deep breathing exercises are found to be of extreme *helpful* to patients suffering from high blood pressure.

- A) Deeply breathing extremely helpful
- B) Deep breathing of extreme help
- C) Deep breathing extremely helpful
- 1) A only
- 2) B only
- 3) C only
- 4) Either B or C
- 5) NCR

73. By the time they *reach* the station, the train *had been departed*.

- A) reached has
- B) reach had
- C) reached had
- 1) A only
- 2) B only
- 3) C only
- 4) Either A or B
- 5) NCR

74. These days, customers have been receiving better services *from* bank employees.

- A) received by
- B) been received from

C) received from

- 1) A only
- 2) B only
- 3) C only
- 4) Either A or C
- 5) NCR

75. It was heartening news that you *narrowly escaped being run over* by a speeding car yesterday.

- A) narrowed run over
- B) narrowly run across
- C) narrowed down running over
- 1) A only
- 2) B only
- 3) C only
- 4) None of these
- 5) NCR

76. What matters most is the quality of the product and *only not merely* the cost, appearance or size.

- A) What not merely
- B) It not only
- C) All that only not mere
- 1) A only
- 2) B only
- 3) C only
- 4) None of these
- 5). NCR

77. Your investment advisor *should be concerned about the security of and high returns on your investment, rather than his benefit.*

- A) should be concern for
- B) should have concern with
- C) should be having concern over
- 1) A only 2) B only
- 3) C only 4) Either A or B
- 5) NCR

78. People who are *insensitive and indifference to the agonies of the poor cannot serve the society.*

- A) indifference sufferings
- B) indifferent sufferings
- C) indifferent agonies
- 1) A only 2) B only
- 3) C only 4) Either B or C
- 5) NCR

79. Getting carry away by slightest provocation is a sign of immaturity.

- A) Getting carried away immaturity
- B) Get carry away immature
- C) Get carried away maturity
- 1) A only
- 2) B only
- 3) C only
- 4) None of these
- 5) NCR

80. Our employees are so careful in their work that none has been so far found any error in their work.

- A) very careful have so far found
- B) so careful has so far found
- C) so efficient have so far found
- 1) A only
- 2) B only
- 3) C only
- 4) Either B or C
- 5) NCR

Directions (Qns. 81-85): In each of these questions, there are three sentences given as (A), (B) and (C). Find out which two or three sentences convey the same meaning. If all the three sentences are different, mark 5 as the answer i.e., 'all different.'

81. A) The Manager would like you to help him locate the fault.

- B) If you help him locate the fault, the Manager would like you.
- C) The Manager would desire that you should provide him the necessary assistance to locate the fault.
- 1) A and B 2) B and C
- 3) A and C 4) All the three
- 5) All different

82. A) Although the strike of transporters continues, I shall come.

- B) I shall come if the strike of transporters continues.
- C) Even though I come, the strike of transporters is going to continue.
- 1) A and B
- 2) B and C
- 3) A and C
- 4) All the three
- 5) All different

83. A) Unlike the tribals who are hard-working, the urban communities cannot withstand physical strain.

- B) The tribals can withstand physical strain whereas urban communities cannot.
- C) Because the tribals are hard-working they can tolerate physical strain.
- 1) A and B
- 2) B and C
- 3) A and C
- 4) All the three
- 5) All different

84. A) Should you need a visa you must submit an application along with your passport and a copy of income tax returns.

- B) Unless you do not submit an application along with your passport and "copy of income tax returns, you will not get visa."
- C) If you submit your application along with your passport and a copy of income tax returns you do not need visa.
- 1) A and B 2) B and C
- 3) A and C 4) All the three
- 5) All different

85. A) The judge remarked that not all the accused were really guilty.

- B) The judge remarked that some of the accused were guilty while others were not.
- C) The judge remarked that all those who are accused include some who are not really guilty.
- 1) A and B 2) B and C
- 3) A and C 4) All the three
- 5) All different

Directions (Qns. 86-90): In each of these questions, a set of 3 or 4 sentences which convey an idea is given. Of these, one or two is/are suppressed. To fill up the spaces of the suppressed sentence(s) two possible fillers as (A) and (B) are given. Find out which one, two or none can fill up the space of the suppressed sentence(s) to make the paragraph meaningful and mark your answer accordingly.

Caution: While marking your answer please also consider the sequence of the sentences if both the sentences are required to fill up the spaces.

- 86. As far as aircraft maintenance procedures are concerned, they are rigorous. (.....). Such cases may end-up in disastrous results, though exceptionally.**
- A) All problems are immediately corrected on almost every occasion.
 B) Only due to urgency or want of aircraft for substitution, certain ones are overlooked.
- A and B
 - B and A
 - A only
 - B only
 - None
- 87. The interrogation lasted for about nine full working days. (.....). The judge observed that he was impressed with the outcome as the involvement of the accused in the crime was crystal clear.**
- A) Hardly anything worth the name came out of such a marathon interrogation.
 B) The prosecution lawyer, though in vain, had relentlessly applied all his wit to expose the accused.
- A and B
 - B and A
 - A only
 - B only
 - None
- 88. Auto riding is a very fascinating hobby. (.....). It is obvious that they consider the hobby more important than anything else.**
- A) Low or even middle income group people can't afford it.
 B) I know many people who had missed many important cases or opportunities for participating in autoriding.
- A and B
 - B and A
 - A only
 - B only
 - None
- 89. There is no doubt that we must be fair and honest in all our dealings. (.....). What you really are is less important than what you are perceived by people around you.**
- A) It means that perception assumes greater importance than reality.
 B) But even more important is how you are perceived by others.
- A and B
 - B and A
 - A only
 - B only
 - None
- 90. The admiration for those who fight against corruption in high places has always been very spontaneous amongst the common people in India. (.....). They unhesitantly appreciate such acts but are afraid of openly doing so for fear of the higher ups.**
- A) They hold such people in high esteem who make sacrifices on principles and moral issues.
 B) They make verbose speeches of admiration and appreciation of such acts.
- A and B
 - B and A
 - A only
 - B only
 - None

Directions (Qns. 91-93): Choose the word which is most nearly the SAME in meaning as the word given in bold as used in the passage.

91. PREDISPOSED

- reluctant
- unprepared
- ready
- hesitant
- interested

92. STRESS

- enforce
- emphasise
- pressurise
- suppress
- implement

93. AFTERMATH

- devastation
- disharmony
- posterity
- consequence
- contemporary

Directions (Qns. 94-95): Choose the word which is most OPPOSITE in meaning of the word given in bold as used in the passage.

94. AGREEMENT

- 1) dissension
- 2) harmony
- 3) refusal
- 4) misunderstanding
- 5) differential

95. SETTLED

- 1) dislocated
- 2) unprecedented
- 3) irrelevant
- 4) stabilised
- 5) unfounded

Directions (Qns. 96-100): Read the following passage carefully to answer these questions. Certain words/ phrases are printed in bold to help you to locate them while answering some of the questions.

India's nuclear ambition had been the bone of contention for a very long time. It was a **settled** belief in our country that the US began to stress the issue of signing the CTBT only in more recent round of talks when the two countries had come close to an **agreement** on the other issues, including the CTBT because it is part of its somewhat browbeating style of doing business. But a moment's reflection would show that there could be another explanation. In the **aftermath** of Pokhran-II when tempers had cooled, the US was **predisposed** to accept our Prime Minister's repeated assertions that India intended to arm it with nuclear weapons only as a deterrent to a nuclear attack or blackmail.

96. Which of the following statements is FALSE in the context of the passage?

- A) Only because of Pokhran-II the US had accepted Indian Prime Minister's assertion about India's nuclear policy.
- B) The rounds of talks were being held by at least three countries, the US being the mediator.
- C) Indian Prime Minister has assured the world that it would not initiate nuclear attack on any nation.

- 1) Only A and C
- 2) Only A and B
- 3) Only B and C
- 4) All the three
- 5) None of these

97. The real intention of the U.S. in bringing the nuclear issue to the fore is most probably

- 1) to suppress India's nuclear ambition
- 2) to incur the goodwill of India's enemy
- 3) to deter India from going nuclear in a big way
- 4) to use it as a negotiation tactic
- 5) to underplay the other more important issues

98. The author of the passage thinks that India's planning for nuclear rearmament is

- 1) going to receive a lot of acclaim
- 2) appreciated by other countries with few reservations
- 3) a matter that irritated most other countries
- 4) not considered as a deterrent policy by the enemies
- 5) None of these

99. Which of the following conclusions can be drawn from the contents of the passage?

- A) India's possessing nuclear arsenals has frightened some countries.
- B) India is not reluctant to sign the CTBT.
- C) The US wants India to sign the CTBT.
- 1) Only A and B
- 2) Only B and C
- 3) Only A and C
- 4) All the three
- 5) None of these

100. Which of the following inferences can be drawn from the content of the passage?

- 1) Most of the issues discussed between India and the US have reached consensus
- 2) India will not use nuclear weapons in any situation -
- 3) India will use nuclear weapons to blackmail the enemies
- 4) Before Pokhran-II, tempers of the other countries had not been cooled down
- 5) None of these

QUANTITATIVE APTITUDE

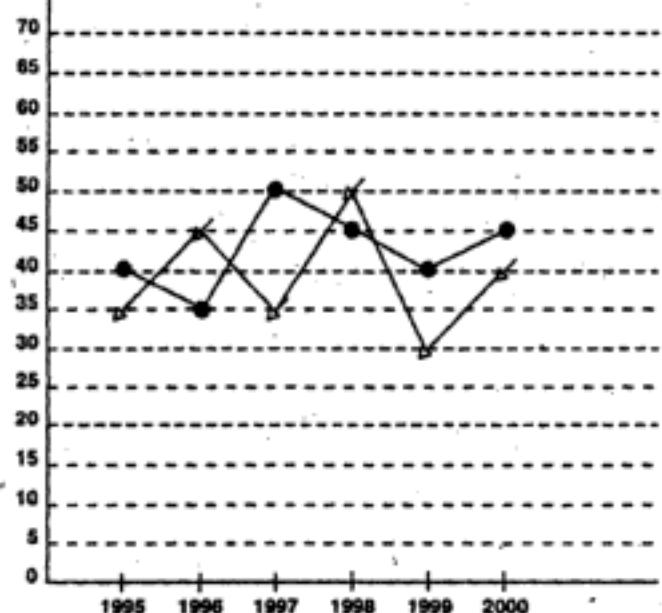
Qns.1-5: Study of the following graph carefully and answer the questions given below it.

Percentage profit earned by two companies A and B over the given years.

Percentage profit / loss

$$= \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$

● → B
↖ → A



- 1.** Expenditures of company B in 1996 and 1997 are Rs. 12 lakh and Rs. 14.5 lakh respectively. What was the total income of company B in 1996 and 1997 together (in lakh rupees)?

- 1) 39.75 2) 37.95
- 3) 38.75 4) 38.5
- 5) None of these

- 2.** Ratio of expenditures of companies A and B in 1999 was 3:4 respectively. What was the respective ratio of their incomes in 1999?

- 1) 21 : 26 2) 13 : 14
- 3) 14 : 13 4) 26 : 21
- 5) None of these

- 3.** Total expenditure of company A in all the years together was 82.5 lakh. What was

the total income of the company in all the years together?

- 1) 1.23 crore 2) 98.75 lakh
- 3) 99.85 lakh
- 4) Can't be determined
- 5) None of these

- 4.** If the expenditures of company A and B in 2000 were equal and the total income of the two companies was Rs. 5.7 lakh, what was the total expenditure of the two companies in 2000?

- 1) 4 lakh 2) 2 lakh
- 3) 4.2 lakh
- 4) Can't be determined
- 5) None of these

- 5.** If the incomes of company B in 1997 and 1998 were in the ratio of 2 : 3 respectively. What was the respective ratio of expenditures of that company in these two years?

- 1) 20 : 29 2) 9 : 10
- 3) 29 : 45 4) 10 : 29
- 5) None of these

Qns. 6-10: Study of the following table carefully and answer the questions given below it.

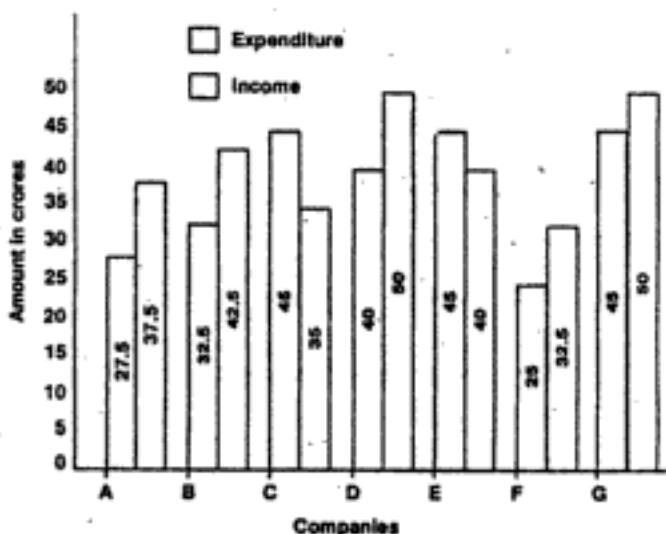
Number of candidates appeared and qualified in a competitive examination from different States over the years.

State	1995		1996		1997		1998		1999	
	A	Q	A	Q	A	Q	A	Q	A	Q
A	15250	1800	17800	1750	14500	1350	15400	1640	16300	1725
B	12500	1100	15400	1480	13800	1420	14000	1525	14550	1500
C	14000	1550	16200	1640	15500	1480	17500	1880	15800	1620
D	17600	1640	16500	1580	14800	1575	15600	1480	17200	1750
E	16400	1480	14700	1620	17000	1600	16400	1500	18000	1950
F	14500	1250	16800	1780	17200	1780	15200	1450	16800	1775
G	15000	1400	15200	1680	16400	1840	17200	1820	17000	1850
Total	107250	10220	112800	11680	109200	11045	111300	11295	115550	2170

- 6.** What is the percentage of candidates qualified in 1998 and 1999 together from all the States over the candidates appeared from all the States in these two years (the value up to two decimal points).

- 1) 10.84 2) 10.32

- 3) 10.62 4) 10.34
 5) None
- 7. For which of the following States the percentage of candidates qualifying over appeared is the lowest in the year 1995?**
- 1) A 2) F
 3) B 4) D
 5) None of these
- 8. What approximately is the percentage of candidates qualified from States C and D together over the candidates appeared from these two States in 1997?**
- 1) 10 2) 12.5
 3) 15 4) 20
 5) 9.5
- 9. What approximately is the average number of candidates qualified in 1998 from the given States?**
- 1) 1630 2) 1516
 3) 1613 4) 1545
 5) 1645
- 10. What is the average number of candidates appeared from State B in the given years?**
- 1) 15850 2) 14050
 3) 15050 4) 15040
 5) None of these
- Qns. 11-15:** Each of the questions consists of a question followed by three statements. You have to study the questions and the statements and decide which of the statement/s is/are necessary to answer the questions.
- 11. What is the area of the hall?**
- I) Material cost of flooring per sq.mt. is 250
 II) Labour cost of flooring the hall is 3,500
 III) Total cost of flooring the hall is 14,500
 1) I and II only 2) II and III only
 3) All I, II and III
 4) Any two of the three
 5) None of these
- 12. What was the percentage of discount offered?**
- I) Profit earned by selling the article for Rs. 252 after giving discount was Rs. 52
 II) Had there been no discount the profit earned would have been Rs. 80
- III) Had there been no discount the profit earned would have been 40%
 1) I and II only
 2) II and either I or III only
 3) I and III only
 4) I and either II or III only
 5) None of these
- 13. What is the speed of the train?**
- I) The train crosses a signal pole in 13 sec
 II) The train crosses a platform of length 250 mts in 27 seconds
 III) The train crosses another train running in the same direction in 32 seconds
 1) I and II only 2) I and III only
 3) II and III only
 4) Any two of the three
 5) None of these
- 14. What is the population of State 'A'?**
- I) After increasing the population of State A by 15% it becomes 1.61 lakh
 II) Ratio of population of State A to that of State B is 7 : 8 respectively
 III) Population of State B is 1.6 lakh
 1) I only 2) II and III only
 3) I and II only
 4) Either only I or II and III
 5) All I, II and III
- 15. How many workers are required for completing the construction work in 10 days?**
- I) 20% of the work can be completed by 8 workers in 8 days
 II) 20 workers can complete the work in 16 days
 III) One eighth of the work can be completed by 8 workers in 5 days
 1) I and III only 2) II and III only
 3) I only 4) III only
 5) Any one of the three
- Qns. 16-20:** Study the following graph carefully and give answers.
- Account of income and expenditure (in crores) of seven companies in the year 2000.
- Percentage profit / loss
- $$= \frac{\text{Income} - \text{Expenditure}}{\text{Expenditure}} \times 100$$



16. Approximately what is the percentage of profit / loss that companies C and D had together?
- 10% profit
 - 12% profit
 - 10% loss
 - 12% loss
 - There was no loss or profit
17. If the income of company A had increased by 10% in year 2000 from year 1999 and profit earned in 1999 was 20%, what was its expenditure in 1999? (The value up to two decimal places in crores.)
- 36.36
 - 32.32
 - 30.30
 - Can't be determined
 - None
18. If the expenditure of company G in 2000 was 20% more than its expenditure in the year 1999 and the company had earned a profit of 10% in 1999. What was the company income in 1999 in crore Rs?
- 37.5
 - 41.25
 - 34.09
 - Cannot be determined
 - None of these
19. Which of the following companies had the highest percentage of profit / loss in 2000?
- B
 - C
 - F
 - A
 - None of these
20. What is the approximate percentage of profit earned by all the companies together in 2000?

- 11
- 11.5
- 10.5
- 12
- 12.5

Qns. 21-25: Study the following table to answer these questions:

Percentage of marks obtained by 7 students in 6 subjects

(Max marks for each subject are shown in brackets)

Subject	H (75)	G (60)	M (80)	S (50)	E (40)	H (40)
P	86	82	95	78	66	84
Q	92	78	85	89	72	76
R	76	94	89	75	62	69
T	67	74	74	84	85	82
M	74	86	64	80	78	72
L	88	89	76	88	70	64
N	90	96	86	92	65	66

21. Approximately what is the overall percentage of marks obtained by the T in all the subjects?
- 79
 - 82
 - 86
 - 72
 - 76
22. What is the overall percentage of marks obtained by M in all the subjects (rounded off to two digits after decimal.)
- 82.74
 - 84.76
 - 76.84
 - 74.87
 - None of these
23. What are the average marks obtained by all the students in Geography?
- 51.34
 - 85.57
 - 52.36
 - 76.27
 - None of these
24. What are the total marks obtained by L in History, Geography and Mathematics?
- 221.8
 - 253
 - 180.2
 - 184
 - None of these
25. What are the average percentage of

marks obtained by all the students in Maths?

- 1) 81.92 2) 81.29
- 3) 65.03 4) 76.23
- 5) None of these

Qns. 26-30: In each of the questions a pair of equations is given. You have to find out the values of x and y and give answer:

- 1) if $x < y$ 2) if $x \leq y$
- 3) if $x = y$ 4) if $x > y$
- 5) if $x \geq y$
- 26. (i) $2x^2 - 7x + 6 = 0$ (ii) $4y^2 = 9$
- 27. (i) $4x^2 - 4x - 3 = 0$ (ii) $4y^2 + 12y + 5 = 0$
- 28. (i) $4x^2 = 49$ (ii) $9y^2 - 66y + 121 = 0$
- 29. (i) $x^2 + 9x + 14 = 0$ (ii) $y^2 + y - 2 = 0$
- 30. (i) $9x^2 - 18x + 5 = 0$ (ii) $2y^2 - 9y + 10 = 0$

31. Salaries of A, B and C are in the ratio 2 : 3 : 5 respectively. If their salaries were increased by 15%, 10% and 20% respectively, what will be the new respective ratio of their salaries?

- 1) 3 : 3 : 10 2) 23 : 33 : 60
- 3) 10 : 11 : 20
- 4) Can't be determined
- 5) None of these

32. Four of the following five parts numbered (1), (2), (3), (4), (5) are exactly equal. The number of the part which is not equal to the other four is the answer.

$$136 \times 12 + 9 \times 3 = 17 \times 64 + 6 \times 3 = 36 \times 17 + 9 \times 8$$

- (1) (2) (3)
- = $56 \times 8 + 14 \times 17 = 76 \times 6 + 19 \times 17$
- (4) (5)

33. If $3y + 2x = 47$ and $11x = 7y$ then what is the value of $y - x$?

- 1) 4 2) 6
- 3) 7 4) 5
- 5) None of these

34. For which of the following values of x the inequality $x(x+3) < 10$ is satisfied?

- 1) $x > 2, x < -5$ 2) $-5 < x < 2$
- 3) $-2 < x < 5$ 4) $x < -2, x > 5$
- 5) None of these

Qns. 35-38: Find out the wrong number in the given following sequence:

- 35. 4 6 12 30 75 315 1260
- 1) 315 2) 75
- 3) 12 4) 6
- 5) 30

- 36. 3 4 13 38 87 166 289
- 1) 38 2) 13
- 3) 87 4) 166
- 5) 4

- 37. 4 5 9 29 111 556 3335
 - 1) 5 2) 9
 - 3) 29 4) 111
 - 5) 556
- 38. 2 6 16 38 84 176 368
 - 1) 6 2) 16
 - 3) 38 4) 84
 - 5) 176

39. What approximate value should come in place of ? in the following equation?

$$9876 + 24.96 + 215.005 - ? = 309.99$$

- 1) 395 2) 295
- 3) 300 4) 315
- 5) 310

40. A boat running downstream covers a distance of 16 km in 2 hours while for covering the same distance upstream it takes 4 hours. What is the speed of the boat in still water?

- 1) 4 kmph 2) 6 kmph
- 3) 8 kmph 4) Data inadequate
- 5) None of these

41. Sunetra invested an amount of Rs. 50,000 to start a software business. After six months Nikhil joined her with an amount of Rs. 80,000. At the end of 3 years they earned a profit of Rs. 24,500. What is Sunetra's share in the profit?

- 1) Rs. 14,000 2) Rs. 9423
- 3) Rs. 10,250 4) Rs. 12,500
- 5) None

42. Average weight of three boys P, T and R is $54\frac{1}{3}$ kgs, while the average weight of

- three boys T, F and G is 53 kgs. What is the average weight of P, T, R, F and H?**
- 1) 53.8 kgs
 - 2) 52.4 kgs
 - 3) 53.2 kgs
 - 4) Data inadequate
 - 5) None
- 43. Two girls and four boys are to be seated in a row in such a way that the girls do not sit together. In how many different ways can it be done?**
- 1) 720
 - 2) 480
 - 3) 360
 - 4) 240
 - 5) None
- 44. If $2x+3y+z=55$; $x+z-y=4$ and $y-x+z=12$ then what is the value of y ?**
- 1) 7
 - 2) 8
 - 3) 12
 - 4) 9
 - 5) None of these
- 45. Sudharshan invested Rs. 15,000 interest @ 10 p.c.p.a for one year. If the interest is compounded every six months, what amount will Sudharshan get at the end of the year?**
- 1) Rs. 16,537.50
 - 2) Rs. 16,500
 - 3) Rs. 16,525.50
 - 4) Rs. 18,150
 - 5) None of these
- 46. 405 sweets were distributed equally among children in such a way that the number of sweets received by each child is 20% of the total no. of children. How many sweets did each child receive?**
- 1) 15
 - 2) 45
 - 3) 9
 - 4) 18
 - 5) None of these
- 47. The wheat sold by a grocer contained 10% low quality wheat. What quantity of good quality wheat should be added to 150 kgs of wheat so that the percentage of low quality wheat becomes 5%?**
- 1) 150 kgs
 - 2) 135 kgs
 - 3) 50 kgs
 - 4) 85 kgs
 - 5) None of these
- 48. Ratio of the earnings of A and B is 4 : 7 respectively. If the earnings of A increase by 50% and the earnings of B decrease by 25%, the new ratio of their earnings becomes 8 : 7 respectively. What are A's earnings?**
- 1) 26,000
 - 2) 28,000
 - 3) 21,000
 - 4) Data inadequate
 - 5) None of these
- 49. If the digits of a two-digit number are interchanged, the newly formed number is more than the original number by 18, and sum of the digits is 8 then what was the original number?**
- 1) 53
 - 2) 26
 - 3) 35
 - 4) Can't be determined
 - 5) None of these

TEST OF REASONING

Qns. 1-4: Which number from the given options would be the next one in the series?

1. 41 43 47 53 ?
 1) 55 2) 57
 3) 59 4) 61
 5) None of these

2. 11 12 26 81 ?
 1) 196 2) 328
 3) 224 4) 289
 5) None of these

3. 5 9 10 28 ?
 1) 15 2) 17
 3) 25 4) 29
 5) None of these

4. 8 9 17 26 ?
 1) 52 2) 48
 3) 45 4) 43
 5) None of these

Qns. 5-7: Which numbers do not fit in the series given below:

5. 517 518 522 531 548 572
 1) 517 2) 518
 3) 522 4) 531
 5) 548

6. 19 41 85 175 349 701
 1) 41 2) 85
 3) 175 4) 349
 5) 701

7. 1 8 27 81 125
 1) 1 2) 8
 3) 27 4) 81
 5) 125

Qns. 8-13: In each of the following questions, a series of numbers is given. Below this series, a number is given. You have to make a similar series of numbers from the given number and answer the questions that follow:

8. 34 35 33 36 32
 57 A B C D E

Which of the following numbers would come in place of D?

- 1) 50 2) 55
 3) 60 4) 62
 5) 57

9. 17 18 37 112 449
 9 A B C D E

Which of the following numbers would come in place of B?

- 1) 27 2) 32
 3) 25 4) 21
 5) 19

10. 4 17 5 26 6
 7 A B C D E

Which of the following numbers would come in place of D?

- 1) 15 2) 63
 3) 9 4) 18
 5) 29

11. 9 8 14 39 152
 8 A B C D E

Which of the following numbers would come in place of E?

- 1) 635 2) 535
 3) 600 4) 615
 5) 585

12. 120 143 168 195 224
 15 A B C D E

Which of the following numbers would come in place of C?

- 1) 102 2) 48
 3) 56 4) 78
 5) 84

13. 25 32 46 67 95
 31 A B C D E

Which of the following numbers would come in place of E?

- 1) 101 2) 98
 3) 136 4) 134
 5) 141

Qns. 14-15: Find the odd-man out:

14. 1) 101 2) 103
 3) 105 4) 107
 5) 109

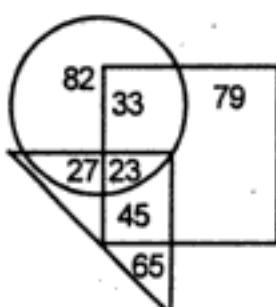
15. 1) 121 2) 8
 3) 64 4) 144
 5) 1

Qns. 16-19: Find the odd-man out:

16. 1) BDHG 2) JLOM
 3) YAEC 4) QTXV
 5) NPTR

- | | | |
|-----|---------|---------|
| 17. | 1) QNLK | 2) JHFE |
| | 3) DAYX | 4) WTRQ |
| | 5) LIGF | |
| 18. | 1) C19P | 2) F26T |
| | 3) K27N | 4) P33Q |
| | 5) A25X | |
| 19. | 1) DW | 2) JQ |
| | 3) BY | 4) GT |
| | 5) LN | |

Qns. 26-28 are based on the Venn diagram given below:



Qns. 20-21: Find out the missing numbers:

- | | | | | | | | | | | | | | | | | | | |
|-----|---|-------|---|----|---|---|--|---|----|----|----|---|---|----|----|-----|---|---|
| 20. | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>6</td></tr> <tr><td>8</td><td>38</td><td>5</td></tr> <tr><td>2</td></tr> </table> | 6 | 8 | 38 | 5 | 2 | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>4</td></tr> <tr><td>12</td><td>?</td><td>13</td></tr> <tr><td>3</td></tr> </table> | 4 | 12 | ? | 13 | 3 | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>5</td></tr> <tr><td>10</td><td>18</td><td>8</td></tr> <tr><td>4</td></tr> </table> | 5 | 10 | 18 | 8 | 4 |
| 6 | | | | | | | | | | | | | | | | | | |
| 8 | 38 | 5 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 12 | ? | 13 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 10 | 18 | 8 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| | 1) 9 | 2) 11 | | | | | | | | | | | | | | | | |
| | 3) 17 | 4) 21 | | | | | | | | | | | | | | | | |
| | 5) 24 | | | | | | | | | | | | | | | | | |
| 21. | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>4</td></tr> <tr><td>2</td><td>43</td><td>8</td></tr> <tr><td>3</td></tr> </table> | 4 | 2 | 43 | 8 | 3 | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>5</td></tr> <tr><td>6</td><td>44</td><td>7</td></tr> <tr><td>4</td></tr> </table> | 5 | 6 | 44 | 7 | 4 | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>10</td></tr> <tr><td>9</td><td>100</td><td>?</td></tr> <tr><td>5</td></tr> </table> | 10 | 9 | 100 | ? | 5 |
| 4 | | | | | | | | | | | | | | | | | | |
| 2 | 43 | 8 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | 44 | 7 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 9 | 100 | ? | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| | 1) 8 | 2) 6 | | | | | | | | | | | | | | | | |
| | 3) 7 | 4) 12 | | | | | | | | | | | | | | | | |
| | 5) 15 | | | | | | | | | | | | | | | | | |

Qns. 22-25: Which would be the next set of letters in the series given below:

- | | |
|-----|--|
| 22. | BPJ CQK DRL ESM ? |
| | 1) GUN 2) HTN |
| | 3) FTN 4) JLP |
| | 5) FTM |
| 23. | DQS FPQ HOO JNM ? |
| | 1) LMK 2) KNT |
| | 3) PSV 4) RTZ |
| | 5) LPR |
| 24. | ZVX UQS PLN KGI ? |
| | 1) CAE 2) GCE |
| | 3) GCD 4) FBD |
| | 5) FAE |
| 25. | If the value of each letter is to be calculated according to its place in the alphabetical order and the total of values is the value of the word, how much more or less is POUND as compared to DOLLAR? |
| | 1) 11 more 2) 8 more |
| | 3) 4 less 4) 1 less |
| | 5) 6 more |

This Venn diagram shows the number of guides to help tourists. The square represents persons who know Russian, the triangle represents those who are fluent in German and the circle for those who are well versed in French. Each section of the diagram shows the number of persons who know that particular language. Now answer the following questions:

- 26. What percentage of the French-knowing guides who know German too but not Russian? (Approx.)**
- 1) 18%
 - 2) 21%
 - 3) 16%
 - 4) 19%
 - 5) None of these
- 27. What percentage of the total number of guides know all the three languages? (Approx.)**
- 1) 6.5%
 - 2) 7.2%
 - 3) 9.4%
 - 4) 9.9%
 - 5) None of these
- 28. What is the difference in the number of guides who know only one language and those who know two languages but not three?**
- 1) 113
 - 2) 136
 - 3) 99
 - 4) 121
 - 5) None of these

Qns. 29-30: The key-word for the next two questions is CONSTABLE. Four of the five given words in each question have the same relationship with the key-word while one is different. Your task is to find this odd-man out:

- | | |
|--------------|----------|
| 29. 1) CABLE | 2) LABEL |
| 3) BLAST | 4) STALE |
| 5) CLONE | |
| 30. 1) COAST | 2) TABLE |
| 3) SALE | 4) COST |
| 5) STALE | |

NON-VERBAL SERIES

The second figure (II) in each of the following questions bears a certain relationship with figure I. Find out from A, B, C, D and E the figure to replace question-mark so that IV bears the same relationship with III.

PROBLEM FIGURES

	I	II	III	IV
31.				?
32.				?
33.				?
34.				?
35.				?
36.				?

ANSWER FIGURES

	A	B	C	D	E

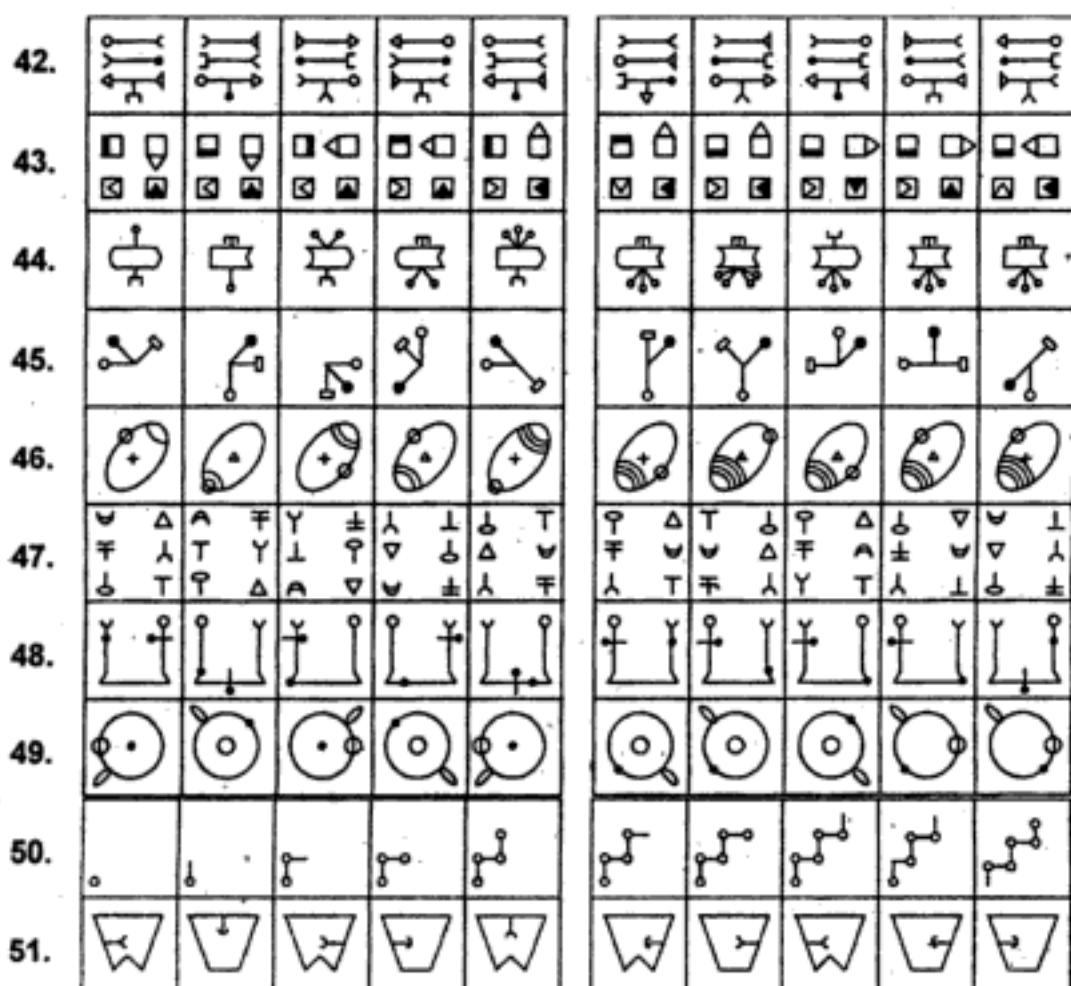
Given below are two sets of figures, the Problem Figures and the Answer Figures marked A, B, C, D and E. You have to find out which of the Answer Figures would be the next one in the series of Problem Figures.

PROBLEM FIGURES

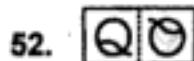
37.					
38.					
39.					
40.					
41.					

ANSWER FIGURES

	A	B	C	D	E



In the following questions, a related pair of figures is given. Find out from A, B, C, D and E the pair with similar relationship.



- F G C R A D E
- A B C D E



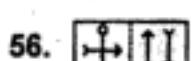
- B D C O E
- A B C D E



- C D A S E
- A B C D E



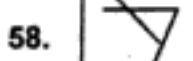
- A B C D E



- A B C D E

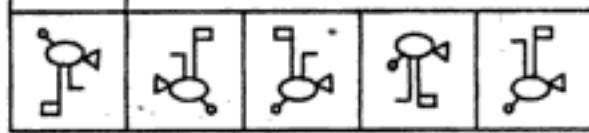
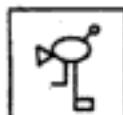


- A B C D E



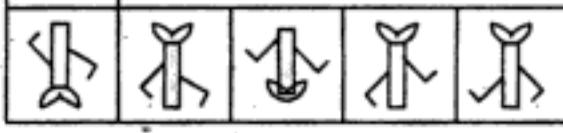
- A B C D E

59.



A B C D E

60.



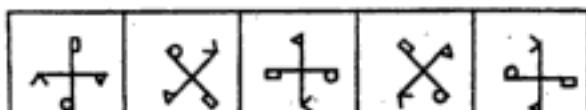
A B C D E

In the given series of figures, the first and the last are unnumbered. You have to find out from A, B, C, D and E the figure that does not fit into the series.

Find the odd man out:

A B C D E

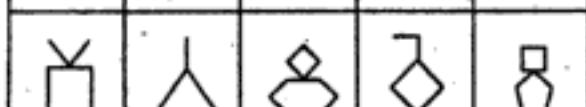
61.



62.



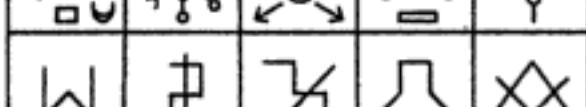
63.



64.

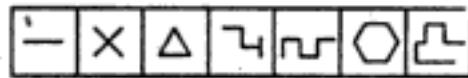


65.



A B C D E

66.



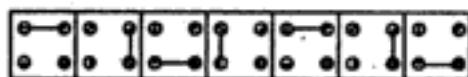
67.



68.



69.



70.



ANSWERS AND EXPLANATIONS**GENERAL AWARENESS**

1. (1) 2. (3)
 3. (5) India signed extradition treaty with Spain in June 2002.
 4. (4) 5. (5) 6. (4)
 7. (3) PPP per capita—India (\$1,800), China (\$3,800), S. Korea (\$13,300), Malaysia (\$10,700),
 Bangladesh (\$1,470).
 8. (4) 9. (5) 10. (1) 11. (3)
 12. (5) Dr. Dalip Kaur Tiwana received the Saraswati Award for 2001.
 13. (3) 14. (1) 15. (1) 16. (4) 17. (4) 18. (2) 19. (3)
 20. (2) 21. (2)
 22. (5) Mr. Manohar Joshi, the former Maharashtra Chief Minister and Union Heavy Industries Minister,
 was elected Speaker of the Lok Sabha on May 10, 2002 without a contest.
 23. (2) 24. (1) 25. (3) 26. (1) 27. (2) 28. (5) 29. (4)
 30. (3) 31. (1) 32. (4) 33. (1) 34. (4)
 35. (3) Mr. V.K. Nambiar, India's former High Commissioner to Pakistan, was appointed the country's
 Permanent Representative to U.N. on April 30, 2002 succeeding Mr. Kamlesh Sharma.
 36. (3) After the Netherlands, Belgium became the second country on May 17, 2002 to legalise
 euthanasia.
 37. (5) 38. (1) 39. (2) 40. (2) 41. (2) 42. (1) 43. (1)
 44. (3) Mr. Hun Sen is the second Prime Minister of Cambodia. First Prime Minister is Ung Huot.
 45. (5) 46. (4) 47. (4) 48. (5) 49. (1) 50. (5)

ENGLISH LANGUAGE

51. (5) 52. (2) 53. (3) 54. (4) 55. (1) 56. (5) 57. (3)
 58. (1) 59. (4) 60. (2) 61. (2) 62. (3) 63. (1) 64. (1)
 65. (1) 66. (1) 67. (1) 68. (5) 69. (1) 70. (3) 71. (3)
 72. (3) 73. (3) 74. (5) 75. (5) 76. (1) 77. (5) 78. (4)
 79. (1) 80. (2) 81. (3) 82. (5) 83. (5) 84. (5) 85. (4)
 86. (1) 87. (5) 88. (4) 89. (4) 90. (3) 91. (3) 92. (2)
 93. (4) 94. (1) 95. (5) 96. (2) 97. (4) 98. (5) 99. (3)
 100. (4)

QUANTITATIVE APTITUDE

1. (2) $35 = \frac{x-12}{12} \times 100$

$$\therefore x = 16.2$$

$$\frac{x-14.5}{14.5} \times 100 = 50$$

$$\therefore x = 21.75$$

$$\therefore \text{Total income} = 16.2 + 21.75 = 37.95 \text{ lakh}$$

2. (5) $30 = \frac{l_1 - 3x}{3x} \times 100$

$$\therefore l_1 = 3.9x$$

$$40 = \frac{l_2 - 4x}{4x} \times 100$$

$$\therefore l_2 = 5.6x$$

$$\frac{l_1}{l_2} = \frac{3.9x}{5.6x} = \frac{39}{56}$$

3. (4)

4. (1) Let exp. of each company be x lakh

$$40 = \frac{l_1 - x}{x} \times 100$$

$$\therefore l_1 = 1.4x$$

$$\text{Sly } 45 = \frac{l_2 - x}{x} \times 100$$

$$l_2 = 1.45x$$

$$l_1 + l_2 = 5.7 \Rightarrow 1.4x + 1.45x = 5.7$$

$$\Rightarrow x = 2$$

$$\text{Total exp. of two companies} = 2x = 2 \times 2 = 4 \text{ lakh}$$

5. (3) $50 = \frac{2x - y_1}{y_1} \times 100$

$$\Rightarrow 1.5y_1 = 2x$$

$$45 = \frac{3x - y_2}{y_2} \times 100$$

$$\Rightarrow 1.45 y_2 = 3x$$

$$\therefore \frac{1.5y_1}{145y_2} = \frac{2x}{3x}$$

$$\Rightarrow y_1 : y_2 = 29 : 45$$

6. (4) Reqd %age = $\frac{11295 + 12170}{111300 + 115650} \times 100 = 10.34$

7. (2) %age of State A = $\frac{1800}{15250} \times 100 = 11.8$

$$\text{%age of State B} = \frac{1100}{12500} \times 100 = 8.8$$

$$\text{%age of State C} = \frac{1550}{14000} \times 100 = 11.07$$

$$\text{%age of State D} = \frac{1640}{17600} \times 100 = 9.32$$

$$\text{%age of State E} = \frac{1480}{16400} \times 100 = 9.02$$

$$\text{%age of State F} = \frac{1250}{14500} \times 100 = 8.6$$

$$\text{%age of State G} = \frac{1400}{15000} \times 100 = 9.33$$

Lowest of State F

8. (1) Reqd %age = $\frac{1480 + 1575}{15500 + 14800} \times 100$
 $= 10 \text{ (approx.)}$

9. (3) Average no. = $\frac{11295}{7} = 1613$

10. (2) Reqd. average = $\frac{1}{5}(12500 + 15400 + 13800 + 14000 + 14550) = 14050$

11. (3) Let area be x sq.m
A.T.S. $250x + 3500 = 14500$
 x can be calculated.

12. (5).

13. (1) $\frac{L(\text{Length of train})}{x(\text{Speed of train})} = 13 \quad S = \frac{D}{T}$

$$\frac{L+250}{x} = 27 \text{ or } \frac{L}{x} + \frac{250}{x} = 27 \text{ or } 13 + \frac{250}{x} = 27$$

x can be calculated.

14. (4) $\frac{115}{120} x = 1.61 \text{ lakh}$ Either (I) only or (II) & (III) or $\frac{x}{16} = \frac{7}{8}$

15. (4)

16. (5) Total income of C & D = $35+35=85$

Total exp. = $45+40=85$

No loss no gain

17. (5) Let the income of company A in year 1999 be Rs. 100

\therefore Income in 2000 = Rs. 110

If income of A is Rs. 110, then in 1999 income was less by 10

$$\text{If income of A is Rs. 100, then in 1999 income was less by } \frac{10}{110} \times 100 = \frac{100}{11}$$

$$\therefore \text{Income of A in 1999} = \frac{37.5 \times \left(100 - \frac{100}{11}\right)}{100} = \frac{375}{11}$$

Let exp. in 1999 be Rs. x

$$\begin{aligned} &\frac{375}{11} - x \\ \therefore 20 &= \frac{11}{x} \times 100 \\ \Rightarrow x &= 28.41 \end{aligned}$$

18. (2) Exp. in 2000 was 20% more means $\frac{20}{100} \times 100 = \frac{50}{3}$ % less in 1999

$$\therefore \text{Exp. of G in 1999} = \frac{15}{100} \times \left(100 - \frac{50}{3}\right) = \frac{75}{2}$$

$$\begin{aligned} &x - \frac{75}{2} \\ \text{ATS 10} &= \frac{\frac{75}{2}}{75} \times 100 \\ &= \frac{2}{2} \end{aligned}$$

$$\Rightarrow x = 41.25$$

19. (4) % Profit of A = $\frac{37.5 - 27.5}{27.5} \times 100 = 36.3$

$$\text{Profit of B} = \frac{42.5 - 32.5}{32.5} \times 100 = 30.7$$

Profit of C = No

$$\text{Profit of F} = \frac{32.5 - 25}{25} \times 100 = 30$$

Profit of A is highest

20. (3) Total income = $37.5 + 42.5 + 35.0 + 50 + 40 + 32.5 + 50 = 287.5$

Total exp. = $27.5 + 32.5 + 45 + 40 + 45 + 25 + 45 = 260$

$$\text{Reqd profit\%} = \frac{287.5 - 260}{260} \times 100 = 10.5 \text{ (approx.)}$$

21. (5) Total max. marks = $75 + 60 + 80 + 50 + 40 + 40 = 345$

Total marks obtained

$$= \frac{67}{100} \times 75 + \frac{74}{100} \times 60 + \frac{74}{100} \times 80 + \frac{84}{100} \times 50 + \frac{85}{100} \times 40 + \frac{82}{100} \times 40 = 262.65$$

$$\text{Reqd. percentage} = \frac{262.65}{345} \times 100 = 76 \text{ (approx.)}$$

22. (4) $\text{Reqd\%} = \frac{100}{345} \left(\frac{74}{100} \times 75 + \frac{86}{100} \times 60 + \frac{64}{100} \times 80 + \frac{80}{100} \times 50 + \frac{78}{100} \times 40 + \frac{72}{100} \times 40 \right) = 74.87$

23. (2) Average marks in Geography = $\frac{1}{7}(82 + 78 + 94 + 74 + 86 + 89 + 96) = 85.57$

24. (3) $\frac{88}{100} \times 75 + \frac{89}{100} \times 60 + \frac{76}{100} \times 80 = 180.2$

25. (2) $\text{Reqd. average\%} = \frac{1}{7}(95+85+89+74+64+76+86) = 81.29$

26. (5) $2x^2 - 7x + 6 = 0 \Rightarrow 2x^2 - 4x - 3x + 6 = 0 \Rightarrow 2x(x-2) - 3(x-2) = 0$

$$(x-2)(2x-3) = 0 \Rightarrow x=2, \frac{3}{2}, 4y^2=9$$

$$\Rightarrow y^2 = \frac{9}{4} \Rightarrow y = \pm \frac{3}{2}$$

$$\therefore x \geq y$$

27. (5) $4x^2 - 4x - 3 = 0 \Rightarrow x = \frac{3}{2}, \frac{1}{2}, 4y^2 + 12y + 5 = 0$

$$\Rightarrow y = -\frac{1}{2}, -\frac{5}{2}$$

$$\therefore x \geq y$$

28. (1) $4x^2=49 \therefore x^2=\frac{49}{4}$

$$\Rightarrow x=\pm\frac{7}{2}=\pm3.5$$

$$9y^2-66y+121=0 \Rightarrow (3y-11)^2=0$$

$$\Rightarrow y=\frac{11}{3}=3.66$$

$\therefore x < y$

29. (2) $x^2+9x+14=0 \Rightarrow (x+2)(x+7)=0 \Rightarrow x = -2, -7$

$$y^2+y-2=0 \Rightarrow (y+2)(y-1)=0 \Rightarrow y=1, -2$$

$\therefore x \leq y$

30. (2) $9x^2-18x+5=0 \Rightarrow 9x^2-3x-15x+5=0$

$$\Rightarrow 3x(3x-1)-5(3x-1)=0$$

$$\Rightarrow (3x-1)(3x-5)=0$$

$$\Rightarrow x=\frac{1}{3}, \frac{5}{3}$$

$$2y^2-9y-10=0 \Rightarrow y=2, \frac{5}{2}$$

$\therefore x \leq y$

31. (2) $\frac{115}{100} \times 2x : \frac{110}{100} \times 3x : \frac{120}{100} \times 5x = 23:33:60$

32. (5) Use the formula BODMAS

First four parts are equal.

33. (1) $2x+3y=47 \dots \text{(i)}$ $11x-7y=0 \dots \text{(ii)}$

Solving (i) & (ii), we get $x=7, y=11$

34. (2) $x(x+3) < 10$ or $x^2+3x-10 < 0$ or $x^2+5x-2x-10 < 0$

$$x(x+5)-2(x+5) < 0 \text{ or } (x+5)(x-2) < 0$$

$\therefore x$ lies between -5 & 2 $-5 < x < 2$

35. (2) Go on multiplying the nos by $\frac{3}{2}, \frac{5}{2}, \frac{7}{2}, 4$ to get the next no.

$$4 \times \frac{3}{2} = 6, 6 \times 2 = 12, 12 \times \frac{5}{2} = 30, 30 \times 3 = 90$$

$$90 \times \frac{7}{2} = 315, 315 \times 4 = 1260$$

Therefore 75 is wrong. It should be 90.

36. (4) Go on adding $1^2, 3^2, 5^2, 7^2, 9^2, 11^2$ to get the next no.

166 is wrong. It should be 168.

37. (3) $4 \times 1 + 1 = 5$, $5 \times 2 - 1 = 9$, $9 \times 3 + 1 = 28$,

$$28 \times 4 - 1 = 111$$

$$111 \times 5 + 1 = 556$$

$$556 \times 6 - 1 = 3335$$

29 is wrong. It should be 28.

38. (5) $2 \times 2 + 2 = 6$, $6 \times 2 + 4 = 16$, $16 \times 2 + 6 = 38$,

$$38 \times 2 + 8 = 84$$

$$84 \times 2 + 10 = 178$$

$$178 \times 2 + 12 = 368$$

176 is wrong. It should be 178.

39. (3) We can use approx. values. Use the rule of BODMAS.

$$? = 987.6 + 25 + 215 - 310 = 300 \text{ (approx.)}$$

$$309.99 - 310 = 24.96 \approx 25 \text{ (approx)}$$

40. (2) Let the speed of boat in still water be x km/hr and that of stream be y km/hr

$$\text{A.T.S. } x+y=\frac{16}{2}=8 \text{ downstream speed } S=\frac{D}{t}$$

$$x-y=\frac{16}{4}=4 \text{ (upstream speed)} \quad (\text{multiplying (i) by 2})$$

Solving the equation we get $x=6$ km/hr

41. (5) Ratio of profits = Ratio of investments

$$50000 \times (3 \times 12) : 80000 \times (36 - 6) = 3 : 4$$

$$\text{Sunetra's share} = \frac{3}{3+4} \times 24500$$

$$= \text{Rs. 10500}$$

42. (4)

43. (2) 4 boys can be seated in a row in $4!$ ways = 12 ways

There are 5 places for girls

$$2 \text{ girls can be seated in } 5P_2 \text{ ways} = \frac{5!}{(5-2)!} = \frac{5!}{3!}$$

$$\therefore \text{Total no. of ways} = 12 \times \frac{5!}{3!} = 12 \times \frac{5 \times 4 \times 3!}{3!} = 480$$

44. (5) $x+z-y=4 \dots \text{(i)}$ $2x+3y+z=55$

$$-x+z+y=12 \quad 2x-2y+2z=8$$

$$\begin{array}{r} \\ \\ \hline 2z=16 \quad \therefore z=8 & \begin{array}{r} - + - - \\ 5y-z=47 \\ \hline 5y-8=47 \quad \therefore y=11 \end{array} \end{array}$$

45. (1) $A = P \left(1 + \frac{R}{100}\right)^n = 15000 \left(1 + \frac{10}{2} \times \frac{1}{100}\right)^2$

= Rs. 16537.50 (1yr=2 half yrs)

46. (3) Let the no. of children be x

$$\text{A.T.S. } \frac{405}{x} = \frac{20}{100} \times x \therefore x = 45$$

$$\text{No. of sweets received by each child} = \frac{405}{45} = 9$$

47. (1) 10% low quality wheat means 90% good quality wheat

Let the good quality wheat added be x kg

$$\text{A.T.S. } (150+x) \frac{95}{100} - x = 150 \times \frac{90}{100}$$

$$\Rightarrow x = 150 \text{ kg}$$

48. (4)

49. (3) Let the digit at unit's place be x and at ten's place be y. ∴ No. = 10y+x

$$\text{A.T.S. } x+y=8 \quad \dots \dots (\text{i})$$

$$10x+y-(10y+x)=18 \quad \dots \dots (\text{ii})$$

$$\text{Solving (i) & (ii) } x=5, y=3$$

$$\text{No.} = 10y+x = 10 \times 3 + 5 = 35$$

TEST OF REASONING

1. (3) It is a series of prime numbers, hence 59.
2. (2) The series is $11 \times 1 + 1 = 12$; $12 \times 2 + 2 = 26$; $26 \times 3 + 3 = 81$; $81 \times 4 + 4 = 328$.
3. (2) The series is $2^2 + 1$; $2^3 + 1$; $3^2 + 1$; $3^3 + 1$; $4^2 + 1$
4. (4) Go on adding numbers, $8+9=17$; $9+17=26$; $17+26=43$.
5. (5) Ought to be 547, $517+1^2$; $518+2^2$; $522+3^2$; $531+4^2$
6. (3) Ought to be 173, $19 \times 2 + 3$; $41 \times 2 + 3$; $85 \times 2 + 3$
7. (4) It is a series of cubes, 1^3 ; 2^3 ; 3^3 ; 4^3 (64); 5^3 .
8. (2) The series is, $57+1=58$; $58-2=56$; $56+3=59$; $59-4=55$; $55+5=60$
9. (4) Numbers are multiplied by 1, 2, 3, 4 respectively and '1' is added to the product, $9 \times 1 + 1 = 10$; $10 \times 2 + 1 = 21$; $21 \times 3 + 1 = 64$
10. (3) The arrangement would be, 7; 7^2+1 ; 8; 8^2+1 ; 9; 9^2+1 .
11. (1) The arrangement would be, $(8 \times 1) - 1 = 7$; $(7 \times 2) - 2 = 12$; $(12 \times 3) - 3 = 33$; $(33 \times 4) - 4 = 128$; $(128 \times 5) - 5 = 635$.
12. (2) The given series is $11^2 - 1$; $12^2 - 1$; $13^2 - 1$ the new one would be $4^2 - 1$; $5^2 - 1$; $6^2 - 1$; $7^2 - 1$

13. (3) Numbers 7, 14, 21, 28, 35 are added to numbers respectively, $31+7=38$; $38+14=52$; $52+21=73$; $73+28=101$; $101+35=136$.
14. (3) All the others are prime numbers.
15. (2) All the others are squares of certain numbers.
16. (4) There is a difference of two letters between Q and T.
17. (2) J and H have skipped one letter only instead of two.
18. (3) The value of letters is calculated by their place in the alphabetical order and the values are added, $11+14=25$.
19. (5) In all the others, the letters have the same place from A and Z.
20. (1) $12 \times 4 = 48$ and $3 \times 13 = 39$. $48 - 39 = 9$.
21. (4) $9^2 + 12^2 = 225$ and $10^2 + 5^2 = 125$; $225 - 125 = 100$.
22. (3) The first letters of series are B, C, D, E, F; the second P, Q, R, S, T and the third J, K, L, M, N.
23. (1) First letters D, F, H, J, L; second Q, P, O, N, M; third S, Q, O, M, K.
24. (4) Number the letters from A to Z as 1 to 26. The last set is 6 2 4, then 11 7 9, next 16 12 14 and so on.
25. (2) POUND is $16+15+21+14+4=70$; DOLLAR $4+15+12+12+1+18=62$.
26. (3) Total number of French-knowing persons is $82+33+27+23=165$. Out of these 27 know German but not Russian.

$$\frac{27 \times 100}{165} = 16.36\%$$

27. (1) Total number of guides: $82+33+27+23+45+79+65=354$,
Out of these only 23 know all the three languages.

$$\frac{23 \times 100}{354} = 6.5\%$$

28. (4) Guides who know one language only, $82+79+65=226$.
Guides who know two languages only, $33+27+45=105$.
The difference is $226-105=121$.
29. (2) The word has an additional 'L' which is not in the key word.
30. (1) In all the others, the order of letters lifted for forming the word has not been changed.
31. (C) The pattern is wrong.
32. (B) The pattern is wrong.
33. (E) The figure above the main figure should have two sides less.
34. (D) The proportion among different figures is wrong.
35. (B) All the other figures are drawn with five straight lines each, this one has six.
36. (C)
37. (B) One arrow is added right and left, after two steps, each arrow changes direction.

38. (D) Square and dot go round clockwise (CW) but at a different pace, triangle and circle go round anti-clockwise (ACW).
39. (A) Pin goes round ACW covering $\frac{1}{8}$ th of the circle and changes direction, the circle goes round CW covering one quarter extra in each step.
40. (D) Cross goes from corner to corner diagonally, so does the circle but stops in the middle each time, triangle moves CW and ellipse ACW, each changing direction.
41. (B) The whole figure rotates ACW and the lines added to it are 1, 2, 3, 4, 5..... respectively.
42. (B) Four corner figures go round ACW and the three remaining CW.
43. (B) One figure changes in each step, the second after two, the third after three and the fourth after four steps.
44. (D) The right end changes each time, the left one in three steps. Other two figures interchange places.
45. (A) Figure having a rectangle at the end moves round CW covering $\frac{1}{8}$ th part extra as compared to the previous one. The other two cover $\frac{1}{4}$ th (90°) part in opposite direction.
46. (C) The circle moves along three points, plus sign and triangle occur alternately and the third figure changes side and has an additional line after one step.
47. (C) Three figures interchange positions alternately CW and ACW. The other three turn upside down.
48. (D) Figures at the edges interchange places, dot slides to the other end, the third figure changes direction alternately and moves in three steps.
49. (B) Circle moves right and left, the dot from centre to corners and the petal to corners CW.
50. (A) Line / circle and line along with circle are added alternately.
51. (D) Pattern at the bottom changes alternately and the other figure goes to three sides, with one end changing alternately.
52. (D)
53. (A)
54. (D)
55. (B)
56. (E)
57. (C)
58. (E)
59. (B)
60. (D)
61. (A)
62. (C)

- 63. (B)
- 64. (E)
- 65. (A)
- 66. (D) Each next figure has one line extra. There should have been a five-line figure.
- 67. (E) Two and one curved lines are added to form petals. There should have been one line more.
- 68. (A) The position of moon is wrong.
- 69. (D) The line in the first circle should have been horizontal and not vertical.
- 70. (B) The point of arrow is in wrong directions because the figure going to the top remains as such.



PROBATIONARY OFFICERS' (MUMBAI) EXAM.

Original Question Paper; Exam Held on 16-07-2000

GENERAL AWARENESS

- 1. Why was Girija Prasad Koirala in the News Recently?**
 - 1) He has resigned from the post of the Prime Minister of Nepal
 - 2) He was winner in the recently-held general elections but he was unable to get majority for his party
 - 3) He was unable to win vote of confidence in the Nepali Parliament
 - 4) He has been sworn in as the President of Nepal because Presidential form of Government has been implemented there
 - 5) None of these

- 2. Which among the following statements is true about the Wagah meeting of Indian and Pakistan officials which was held in April 2000?**
 - 1) To give information about routine army exercise
 - 2) To run the Samjhauta Express
 - 3) For the transfer of war prisoners
 - 4) Both (1) & (2)
 - 5) None of these

- 3. Which among the following statement is true about Horst Koehler who was in news recently?**
 - (A) He has been appointed the Managing Director of International Monetary Fund (IMF)
 - (B) Before appointment in the IMF, he was the Chancellor of Germany
 - (C) Mr. Koehler was as the acting MD of IMF for last two years
 - 1) Only (A)
 - 2) Only (B)
 - 3) Only (C)
 - 4) Only (A) and (B)
 - 5) Only (B) and (C)

- 4. Which among the following statements is true about the West Bank crisis?**
 - (A) Palestine leader Yaser Arafat has accepted the Israeli plan about the autonomy of West Bank
 - (B) The Prime Minister of Israel Mr. Ehud Barak has proposed about the expanded

- autonomy**
- (C) According to the agreement 6.1 p.c. of West Bank will be transferred to Palestine authority**
 - 1) Only (A)
 - 2) Only (A) and (C)
 - 3) Only (C)
 - 4) Only (A) and (B)
 - 5) Only (B)

- 5. Mr. Bartholomew Ulufa Alu resigned on June 14. He was the Prime Minister of**
 - 1) Peru
 - 2) Maldives
 - 3) Solomon Islands
 - 4) Kuwait
 - 5) None of these

- 6. Why Mr. Chen Shubian was in the news recently?**
 - 1) He has been elected as the President of China
 - 2) He has been sworn in as the President of Taiwan
 - 3) He is the new Prime Minister of Japan
 - 4) He has been sworn in as the Prime Minister of South Korea
 - 5) None of these

- 7. Mr. Ahmed Nascedet Sezer has been elected the 10th President of**
 - 1) Canada
 - 2) Iran
 - 3) Saudi Arabia
 - 4) Turkey
 - 5) None of these

- 8. Chhitisnghpura Village which was recently in news is in**
 - 1) Assam
 - 2) Manipur
 - 3) Kashmir
 - 4) Uttar Pradesh
 - 5) Punjab

- 9. Mr. P. Shanmugam was in the news because**
 - 1) He has resigned from the Chief Ministership of Pondicherry
 - 2) He has been sworn in as the Deputy Chief Minister of Tamil Nadu
 - 3) He has been appointed as the Minister of Tourism in the Union Council of Ministers
 - 4) He is the new Chief Minister of Pondicherry.

- 5) He has been sworn in as the Governor of West Bengal
10. Experiments are going on to make it possible to transplant the organs of which of the following cloned animals into human beings?
- 1) Sheep
 - 2) Piglets
 - 3) Goat
 - 4) Monkeys
 - 5) None of these
11. Which of the following is not true about the general budget of the Union Government for the year 2000-2001?
- 1) Duties on crude oil and petroleum product reduced
 - 2) Cars of physically handicapped cheaper
 - 3) Substantial changes in the rates of personal Income Tax
 - 4) Interest Tax on Banks and Financial Institutes abolished
 - 5) Tax relief for housing and higher education
12. As per the figures of the 1991 census, the percentage annual increase in urban population in the previous decade was
- 1) 1%
 - 2) 2.3%
 - 3) 3.47%
 - 4) 3.09%
 - 5) 4.25%
13. Why was Mount Uau at Hokkaido Island in Japan recently in news?
- (A) A volcano became active there all of a sudden after a gap of 20 years
 - (B) It is the venue of Olympic 2000
 - (C) The next meeting of the World Trade Organisation will take place there in June 2000
- 1) Only (A)
 - 2) Only (B)
 - 3) Only (C)
 - 4) (A) and (B) both
 - 5) (A) and (C) both
14. Why was Courtney Walsh of West Indies recently in news?
- (A) He has taken retirement from the first class cricket
 - (B) He was found involved in match-fixing
 - (C) He has decided to join active politics
 - (D) He has established the record taking the highest number of wickets in test cricket
- 1) Only (B) and (C)
 - 2) Only (C) and (D)
 - 3) Only (C)
 - 4) Only (B) and (D)
 - 5) Only (D)
15. Bangalore will soon hold India's first ever helicopter training school. The school will be operated by which of the following organisations?
- (A) Indian Airlines
 - (B) Hindustan Aeronautics Ltd.
 - (C) Pawan Hans
- 1) Only (A)
 - 2) Only (B)
 - 3) Only (C)
 - 4) (A) and (B) jointly
 - 5) (B) and (C) jointly
16. Why was Miss Rupali Repale recently in news?
- (A) She has become the first Indian lady who scaled Mount Everest without oxygen cylinder
 - (B) She has become the first woman to swim the cold and rocky waters from Cape Town to Robben Island in seven hours time.
 - (C) She will be our new High Commissioner to United Kingdom
- 1) Only (A)
 - 2) Only (B)
 - 3) Only (C)
 - 4) Only (B) and (C)
 - 5) Only (A) and (B)
17. Which of the following awards/honours was recently conferred upon Dr.M.S. Gill?
- 1) Man of the year 1999 by India Today
 - 2) Booker Prize 1999 for his recently published biography
 - 3) Best Civil Servant of the year 1999 by the Ministry of Home Affairs, Govt. of India
 - 4) Padma Vibhushan
 - 5) None of these
18. "Macau" was recently in news is now
- 1) A British colony
 - 2) A part of Japan
 - 3) A part of China
 - 4) A part of Myanmar
 - 5) Is a South Korean Island
19. 'Grozny' which was in news recently, is the capital of
- 1) Albania
 - 2) Chechnya
 - 3) Israel
 - 4) Lebanon
 - 5) None of these
20. Which of the following Industrial Houses has recently launched a twenty-four hour Entertainment Channel?
- 1) Sahara
 - 2) M.D.H.
 - 3) Jagsson
 - 4) Dalmia
 - 5) None of these
21. Why was 'Chainpora' a place in Jammu and Kashmir recently in news?

- 1) A group of militants captured the place for running its activities after evacuating the entire village
 2) A new Military Training School is being established there which will impart special training to the jawans for fighting in difficult areas like Kargil etc.
 3) A group of Sikhs was brutally murdered there by a militant group
 4) A BSF Camp there was seized by a group of militants when 50 personnels of BSF were inside a building. Security Forces in a fierce fighting got it back from militants
 5) None of these
22. Who amongst the following is the author of the famous book "A Dance to the Music of Time"?
 1) Anthony Powell 2) Jhumpa Lahiri
 3) Andrew Lloyd Webber
 4) Elton John
 5) None of these
23. Jyoti Randhawa recently won "Indian Open 2000" title in
 1) Badminton 2) Chess
 3) Table Tennis 4) Weightlifting
 5) Golf
24. Which of the following films won the 'Best Picture-Oscar Award for 2000'?
 1) Boys Don't Cry 2) American Beauty
 3) All about My Mother
 4) The Red Violin
 5) None of these
25. Who amongst the following is the author of the recently published book "First Person"?
 1) Mr. Vladimir Putin
 2) Dr. Shankar Dayal Sharma
 3) Mr. George Bush
 4) Mr. Helmut Kohl
 5) None of these
26. Who amongst the following is/are the recipient of 'K.K. Birla Sports Awards 1998-99' announced recently?
 (A) Dhanraj Pillay
 (B) Mahesh Bhupathi
 (C) Jyotirmoyee Sikdar
 (D) Sourav Ganguly
 1) Only (A) and (B)
- 2) Only (D)
 3) Only (A), (C) and (D)
 4) Only (A) and (C)
 5) Only (A), (B) and (D)
27. If the reading in a barometer shows an abrupt fall, the chances are that the weather will be
 1) very cool 2) very stormy
 3) full of rains 4) calm and quiet
 5) very hot
28. The gas which is used in cold storage plants for refrigeration is known as
 1) Chlorine 2) CO₂
 3) Ammonia 4) Hydrogen
 5) Methane
29. 'Zero Hour' in the Parliament refers to the time
 1) for lunch hour
 2) when the Parliament is in a special session
 3) when the President is going to address the session
 4) when the Parliament invites a foreign dignitary to address its session
 5) to ask unscheduled question
30. "Arjuna Awards" are given for excellence in the field of
 1) Science and Technology
 2) Literature
 3) Cinematography
 4) Sports and games
 5) Journalism
31. Mr.E.K. Mawlang who was recently in news has been sworn in as
 1) Chief Minister of Nagaland
 2) Cabinet Minister in Union Council of Ministers
 3) A Minister of State
 4) Governor of Bihar
 5) Chief Minister of Meghalaya
32. Which among the following days is celebrated as "World Forest Day"?
 1) 21st March 2) 21st May
 3) 21st June 4) 22nd March
 5) 22nd May
33. Which of the following is/are not true about forest cover in India?
 (A) Forests contribute about 4.7% to gross domestic product (in direct terms) of the

- country.
- (B) National Forest Policy 1988 has set a national goal of bringing 1/3 of total geographical area forest cover.
- (C) At present about 29% of the total land area is under forest cover
- 1) Only (A) 2) Only (B)
3) Only (C) 4) Only (A) and (B)
5) Only (A) and (C)
34. Dr. Durgabai Deshmukh Award was given away recently to a Mumbai based Organisation. The award is given for the to the
- 1) best literary work of women authors
2) best women journalists
3) commendable work in the field of women's development and empowerment
4) person who does commendable work in the field of rural development
5) person who does commendable work in the area of energy conservation
35. Which of the following is/are not true about the formation of the new Government in Bihar state after recent elections?
- (A) Rashtriya Janata Dal got 124 out of 324 assembly seats
(B) Nitish Kumar of RJD was invited to form his Government immediately after elections
(C) Nitish Kumar failed to win the vote of confidence and resigned only after a week
- 1) Only (A) 2) Only (B)
3) Only (C) 4) Only (A) and (B)
5) Only (B) and (C)
36. Which of the following is/are not true about the powers of the Governor of a State?
- (A) The House cannot enact any law involving expenditure from the Consolidated Fund of the State without the recommendation of the Governor
(B) Governor can appoint adhoc judges of courts etc. if these appointments are not made by the Law Commission of the country within six months time from the day vacancies are created
(C) Governor can recommend the dissolution of assembly or central rule in the State
- 1) Only (A) 2) Only (B)
3) Only (C) 4) Only (B) and (C)
37. Which of the following is/are true about the literacy rate in India?
- (A) The overall literacy rate was 62 per cent in 1997
(B) Males are now less literate as compared to females
(C) For females the literacy rate is 50%
- 1) Only (A) and (B) 2) Only (A) and (C)
3) Only (B) and (C) 4) Only (A)
5) All are true
38. Which of the following is/are not the part of the deals signed by India and U.S.A. during the visit of the U.S. President to India recently?
- (A) U.S.-Indo Science and Technology Forum was set up.
(B) Indo-U.S. Financial and Economic Forum was set up.
(C) A Joint Commission, was set up to remove the snag in India's signing of CTBT
- 1) Only (A) 2) Only (B)
3) Only (C) 4) Only (A) and (B)
5) Only (B) and (C)
39. Which of the following is/are not the part of Export-Import policy for 2000-2001 announced recently?
- (A) Licensing and quota system withdrawn on 714 consumer products.
(B) A number of schemes aimed at achieving an export growth of 35% in dollar terms in 2000-2001.
(C) A private sector SEZ is to be established at Pipavav and Tuticorin cities.
- 1) Only (B) 2) Only (A) and (C)
3) Only (C) 4) Only (A) and (B)
5) Only (A)
40. At present, foreign equity limit in Public Sector banks is
- 1) 20 per cent 2) 30 per cent
3) 40 per cent 4) 50 per cent
5) 33 per cent
41. NASA of America has recently launched a satellite 'The Image'. That Satellite will study
- 1) Mars 2) Venus
3) Pluto 4) Jupiter
5) Magnetic field of Moon

42. Who among the following has been selected as the 'Indian Industrialist of 20th century'?
- G.P. Goenka
 - Aditya Birla
 - Narayan Murthy
 - Aziz Premjee
 - Dhirubhai Ambani
43. Which among the following statements is not true about the General Elections held in Iraq in March 2000?
- General Elections were held in Iraq after 20 years
 - Elections were held for the 560 Members of Parliament
 - Son of Saddam Hussain fought election from Baghdad Seat.
- Only (A)
 - Only (A) & (C)
 - Only (C)
 - Only (B) & (C)
 - Only (B)
44. Which among the following statements is true about the presidential elections in Russia?
- Mr. Putin was the President of Russia has been elected again for six-year term
 - Mr. Putin secured 52 per cent of total votes while his rival Mr. Jyuganov got only twenty-nine per cent vote.
 - Mr. Putin defeated Mr. Yeltsin who got only 10 per cent vote
- Only (A)
 - Only (B)
 - Only (C)
 - Only (B) and (C)
 - Only (A) and (B)
45. Which team won the triangular 'Coca Cola Cup' which was held recently at Sharjah?
- Pakistan
 - South Africa
 - Zimbabwe
 - India
 - None of these
46. 'Hallious' which was in news recently, is
- An aircraft without pilot developed by NASA
 - A satellite launched by Germany
 - A satellite launched by China
 - A new war tank bought by India recently
 - None of these
47. Which among the following Share Market is known as "NASDAQ" which was recently in news?
- New York
 - Tokyo
 - Manila
 - New Jersey
 - None of these
48. Which among the following team won the 34th "Ranji Trophy" cricket final?
- Hyderabad
 - Baroda
 - Mumbai
 - Delhi
 - None of these
49. Recently, the last match of 56th Senior National Football Championship was played. The last match of this tournament was played between
- West Bengal - Kerala
 - Kerala - Indian Railways
 - Kerala - Maharashtra
 - Maharashtra - West Bengal
 - West Bengal - Air India
50. Which among the following countries has provided 'Barak' projectiles being used by Indian Navy?
- Israel
 - France
 - United Kingdom
 - Germany
 - None of these

ENGLISH

Directions (1-10): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

A friend in need is a friend indeed. A man who stands 1 his friend in 2 is a true friend. Selfless love is the base of true friendship. True friends share each other's joy and sorrow, pain and pleasure.

They do not fall 3 in adversity. They have full confidence in each other. They never 4 each other. 5 makes friends, adversity tries them. A selfless friend is a 6; a selfish friend is a curse. The first is an angel and the second is a devil. One makes your career while the other 7 it.

True friendship means great self-sacrifice on the part of both. A true friend 8 pleasure and convenience. He goes out of his way and faces difficulties in his way with joy and even with pride.

Joy and sorrow, success and failure, good fortune and misfortune, are equally **9** by a pair of true friends. They **10** the burden of life equally for they feel that they sail in the same boat and that they have to sink and swim together.

- | | | |
|-----|---------------|---------------|
| 1. | 1) to | 2) with |
| | 3) for | 4) by |
| | 5) of | |
| 2. | 1) adversity | 2) commotion |
| | 3) change | 4) happiness |
| | 5) growth | |
| 3. | 1) by | 2) to |
| | 3) off | 4) with |
| | 5) through | |
| 4. | 1) postulate | 2) commit |
| | 3) danger | 4) deplete |
| | 5) betray | |
| 5. | 1) Wealth | 2) Prosperity |
| | 3) Man | 4) Providence |
| | 5) Well-being | |
| 6. | 1) boon | 2) force |
| | 3) blessing | 4) calamity |
| | 5) message | |
| 7. | 1) throws | 2) develops |
| | 3) constructs | 4) mars |
| | 5) lacks | |
| 8. | 1) foregoes | 2) mitigates |
| | 3) evolves | 4) appraises |
| | 5) prospers | |
| 9. | 1) built | 2) pleased |
| | 3) admired | 4) advocated |
| | 5) shared | |
| 10. | 1) expect | 2) shoulder |
| | 3) dislike | 4) propose |
| | 5) project | |

Directions (11-20): Read the following passage carefully and answer the questions given below it. Certain words/expressions are given in **bold** in the passage to help you locate them while answering some of the questions:

We all seek happiness but few, very few, indeed, get it. We are unhappy partly because we desire much more than what we can hope to attain. Our countless desires are hard to be satisfied. And that is what makes us so sad in life.

The secret of happiness lies in the simplification of life. Simple living encourages high thinking. It leads to contentment. Contentment

gives us inner wealth, the wealth of the mind and of the soul. A contented man devotes himself to virtues like truth, beauty, love, goodness, kindness and charity. By pursuing and inculcating these virtues, a man can feel true happiness.

I do not mean that for simplification of life, a man should become an ascetic. The happiness of a sadhu is of a negative kind. I want positive kind of happiness. For this I must live in the midst of life and faithfully carry out my responsibilities to my home and my country. But all this should be done in the spirit of selfless service. A man who wants to lead a happy life, should also make others happy. In making others happy he will taste real and lasting happiness. There is a kind of joy in serving others with virtuous motives, in sacrificing what one has for the good of others. An act of goodness is of itself an act of happiness.

The secret of perfect happiness lies in renunciation. Wealth may give us joy for a while and fame may provide us with fleeting excitement. But they cannot give us permanent happiness. Kings have everything to make them happy and yet they feel unhappy. It is because they do not practise renunciation.

There is a sense of joy in doing one's work honestly and efficiently. A research-worker feels joy in research and a journalist in writing. In doing one's duty sincerely, one feels peace of mind which is an important essence of happiness.

It is only by cultivating spirit of renunciation, self-sacrifice, contentment and sincere work that one can really be happy. The stings of misfortune spare none but they will not cow such a person.

11. What does a contented man do?

- 1) He pursues and assimilates the basic virtues of life
- 2) He faces boldly the adversities of life
- 3) He encounters the stings of misfortunes
- 4) He gives up bad habits effortlessly
- 5) None of these

12. Which of the following is the correct chain of things, as mentioned in the passage, leading to happiness?

- 1) Contentment, high thinking, simple living, inner wealth
- 2) Simple living, high thinking, inner wealth, contentment

- 3) High thinking, simple living, inner wealth, contentment
 4) Inner wealth, simple living, contentment, high thinking
 5) Simple living, high thinking, contentment, inner wealth
- 13. According to the passage, the essence of happiness lies in**
- 1) worldly desires
 - 2) matching one's abilities with the work undertaken
 - 3) avoiding all unfortunate events
 - 4) adopting a simple life style
 - 5) following the dictates of nature
- 14. We are unhappy partly because**
- 1) We have no inner strength
 - 2) We have lost moral and spiritual values
 - 3) We have countless unfulfilled desires
 - 4) Our lives have become extremely complicated
 - 5) We carry several stresses and strains
- 15. Which of the following statements is not true in the context of the passage?**
- 1) One feels peace of mind in doing one's duty sincerely
 - 2) Renunciation is the result of perfect happiness
 - 3) Multiplicity of desires make us unhappy
 - 4) Making others happy makes one happy
 - 5) An act of goodness is an act of happiness
- 16. Which of the following is opposite in meaning to the word 'fleeting' as used in the passage?**
- 1) permanent
 - 2) passing
 - 3) fast
 - 4) momentary
 - 5) pleasing
- 17. A man who wants to live a permanent happy life should**
- 1) make others happy
 - 2) master the art of renunciation
 - 3) pursue wealth and fame
 - 4) inculcate the virtues of life
 - 5) keep a tight control on his desires
- 18. Which of the following is similar in meaning as the word 'cow' as used in the passage?**
- 1) spare
 - 2) conquer
 - 3) discard
 - 4) provoke
 - 5) mould
- 19. Which of the following statements is true in the context of the passage?**
- 1) Human beings seldom seek happiness
 - 2) Doing one's work sincerely and hardly makes one happy
 - 3) Peace of mind is tangent to happiness
 - 4) Simple life is like a life of an ascetic
 - 5) A happy man is also not spared by the misfortunes
- 20. What according to the passage, is a positive kind of happiness?**
- 1) Keeping ones motives and feelings under control
 - 2) Love for life and a country
 - 3) Leading a simple life of an ascetic
 - 4) Carrying out all worldly activities in the spirit of selfless service
 - 5) None of these
- Directions (21-30): Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is '5'. (Ignore errors of punctuation, if any)**
21. I live on a top floor (1) / of an old house. (2) / When the wind blows (3) / all the windows rattle. (4) / No error (5)
 22. Had he not reached in time (1) / he would have missed (2) / a golden opportunity whch comes (3) / once in a while. (4) / No error (5)
 23. The Ministry of Labour conducts its basic survey.(1) / on trade unions each year (2) / gathering information with all (3) / labour unions as of June 30. (4) / No error (5)
 24. Stories have always been used (1) / as a powerful tool for (2) / communicating vital information from (3) / one generation to another. (4) / No error (5)
 25. We all are indebted to him (1) / for holding not only high moral values (2) / but also rendering dedicated service (3) / for the betterment of human race. (4) / No error (5)
 26. We are trying to (1) / find out the root cause (2) / of this recurring problem (3) / since the last four days. (4) / No error (5)
 27. I told him bluntly (1) / that he is a lazy fellow (2) / and that he had done (3) / his work very badly. (4) / No error (5)

28. Mumbai is full of tall buildings (1) / which is at once its (2) / strength as well as weakness (3) / depending upon how one look at it. (4) / No error (5)
29. I am fully aware that (1) / my boss is one of those (2) / who is totally dedicated (3) / to work and proper discipline. (4) / No error (5)
30. The Director of our Company (1) / does not believe that (2) / we are working sincerely (3) / and with interest for all these years. (4) / No error (5)

Directions (31-35): In each of the following questions an idiomatic expression and its four possible meanings are given. Find out the correct meaning of the idiomatic expression. If you do not find any correct answer mark 5 i.e. "None of these" as your answer.

31. To lose face

- 1) To gain an advantage over
- 2) To wait eagerly for
- 3) To fight unfairly
- 4) To avoid being friendly with
- 5) None of these

32. The rank and file

- 1) The ordinary members of a society
- 2) Bring about appeasement in a disturbed situation
- 3) A fuss over a trifling matter
- 4) An established secured right
- 5) None of these

33. To make a long face

- 1) To be short of money
- 2) To make a gain that is legitimate
- 3) To be friendly with
- 4) To look depressed
- 5) None of these

34. In apple-pie order

- 1) To change for the better
- 2) Expose one's inner feelings to others
- 3) Perfectly methodical arrangement
- 4) To escape from danger
- 5) None of these

35. In the blues

- 1) Behave like a lord
- 2) Melancholy and low-spirited
- 3) Being colourful
- 4) Having many blue things
- 5) None of these

Directions (36-45): Pick out the most effective word from the given words to fill in the blanks to make the sentence meaningfully complete.

36. He has a _____ knowledge about ancient Indian scriptures.
 1) delectable 2) profound
 3) enriching 4) vociferous
 5) lamentable
37. Your allegation should be based on facts and not on _____.
 1) surmise 2) proofs
 3) projections 4) antipathy
 5) records
38. He spent whole of his life in _____ the miseries of the downtrodden people.
 1) destroying 2) absorbing
 3) advocating 4) avoiding
 5) mitigating
39. The _____ climate of our town will help recover his health.
 1) enchanting 2) prestigious
 3) salubrious 4) enriching
 5) proverbial
40. He has the _____ distinction of losing the election for the sixth consecutive time.
 1) reliable 2) manifest
 3) lamentable 4) dubious
 5) refreshing
41. His arguments in the court were so _____ that he shattered the evidence built by the opposition lawyer.
 1) diagnostic 2) voluminous
 3) penetrative 4) worldly
 5) durable
42. Facial expressions and body language, many times, do not display the _____ feelings of a man.
 1) covert 2) open
 3) outrageous 4) stringent
 5) popular
43. Dorab is a man of admirable taste and a great political _____.
 1) appreciation 2) synthesis
 3) viability 4) distinction
 5) acumen
44. Countless books _____ the benefits of clear and accurate communication.

- 1) extol 2) subscribe
 3) contribute 4) extend
 5) deploy
- 45.** Nothing ever becomes real till it is experienced. Even a proverb is no proverb to you till your life has _____ it.
 1) projected 2) explained
 3) developed 4) illustrated
 5) proposed

Directions (46-50): Rearrange the following seven sentences A, B, C, D, E, F and G in the proper sequence to form a meaningful paragraph; then answer the questions given below them.

- (A) In other words, floods and droughts are built into the country's monsoonal ecology.
 (B) "It pours cats and dogs" they said.
 (C) In the remaining 8,660 hours there is hardly any precipitation.
 (D) If the rain is not caught and stored, it will be impossible to live in this country.
 (E) But most of it pours down in a mere hundred hours.
 (F) India gets more rain annually - 1,100 mm, on an average - than any other part of the world.

- (G) When the British came to India, they were struck by the amount it rained here.
- 46.** Which of the following will be the first sentence?
 1) G 2) A
 3) C 4) D
 5) F
- 47.** Which of the following will be the second sentence?
 1) C 2) D
 3) F 4) G
 5) B
- 48.** Which of the following will be the fourth sentence?
 1) F 2) C
 3) E 4) F
 5) D
- 49.** Which of the following will be the fifth sentence?
 1) A 2) C
 3) D 4) F
 5) G
- 50.** Which of the following will be the last sentence?
 1) D 2) E
 3) F 4) A
 5) C

QUANTITATIVE APTITUDE

Directions (1-5): In each of the following questions, a number series is given. After the series, below it, a number along with (a), (b), (c), (d) and (e) is given. You have to complete the series following the same sequence as that of the given series. Then answer the question that follows.

1. 8 6 9 23 87 429
 6 (a) (b) (c) (d) (e)

What will come in place of (c)?

- 1) 21 2) 11
 3) 19 4) 17
 5) None of these

2. 2 3 10 29 172 885
 1 (a) (b) (c) (d) (e)

What will come in place of (b)?

- 1) 11 2) 7

- 3) 9 4) 8
 5) None of these
3. 5 7 10 36 136 690
 2 (a) (b) (c) (d) (e)
- What will come in place of (e)?
- 1) 310 2) 330
 3) 110 4) 64
 5) None of these
4. 8 9 13 11.5 18 14
 12 (a) (b) (c) (d) (e)
- What will come in place of (d)?
- 1) 13.5 2) 19.5
 3) .22 4) 18
 5) None of these
5. 8 4 6 15 52.5 236.25
 4 (a) (b) (c) (d) (e)

Which of the following will come in place of (d)?

- 1) 36.25 2) 33.25
- 3) 26.75 4) 32.75
- 5) None of these

Directions (6-10): Three statements are followed below the question asked. How many statement(s) would be required to answer the questions and number the options given below.

6. By selling an article what is the profit percent gained?

- (A) 5% discount is given on list price
- (B) If discount is not given 20% profit gained.
- (C) The cost price of the article is Rs.5000
- 1) Only (A) and (B) 2) Only (A) and (C)
- 3) Only (B) and (C)
- 4) All (A), (B) and (C) together
- 5) None of these

7. What is the present age of father?

- (A) Difference in ages of father and son is 24 years.
- (B) Present age of son is $\frac{1}{5}$ th of present age of father.
- (C) After 6 years from now, the age of son will be $\frac{1}{3}$ rd of father's age.
- 1) Only (A) and (B) 2) Only (B) and (C)
- 3) Only (A) and (C)
- 4) All (A), (B) and (C) together required
- 5) Any two of the statements are required to answer the question

8. What is the cost of fencing a rectangular plot?

- (A) Length of the plot is twice its breadth
- (B) Area of the plot is 288 square metres
- (C) Cost of fencing is Rs. 4/- per metre
- 1) (B) and (C) only 2) (A) and (C) only
- 3) (A) and (B) only
- 4) All the three statements (A), (B) and (C) are required to answer the question
- 5) Question cannot be answered even with all the three statements together.

9. What is the length of the train?

- (A) The train crosses a signal pole in 18 seconds.

(B) The train crosses a bridge of 700 m in one minute.

- (C) Speed of the train is 60 kmph.
- 1) (A) and (C) only 2) (B) and (C) only
- 3) (C) and (A) or (B) only
- 4) (A) or (B) only
- 5) None of these

10. What will be the compound interest earned on an amount of Rs. 5,000/- in two years?

- (A) The simple interest on the same amount at the same rate of interest in five years is Rs.2,000/-
- (B) The compound interest and the simple interest earned in one year is the same.
- (C) The amount becomes more than double on compound interest in 10 years.
- 1) (A) and (B) only 2) (A) only
- 3) (B) and (C) only 4) (A) and (C) only
- 5) None of these

11. What will come in place of question mark (?) in the following equation?

$$\frac{3}{8} \text{ of } 168 \times 15 + 5 + ? = 549 \div 9 + 235$$

1) 189	2) 107
3) 174	4) 296
5) None of these	

12. Four of the following five parts numbered (1), (2), (3), (4) and (5) are exactly equal. Which part is not equal to the other four parts? The number of that part is your answer.

- 1) $2x(x+5) + 12$
- 2) $2x(x+3) + 3(x+4) + x$
- 3) $(x+3)^2 + (x+1)(x+3)$
- 4) $(x+1)(2x+3) + 2(x+3)$
- 5) $2(x+1)(x+3) + 2(x+3)$

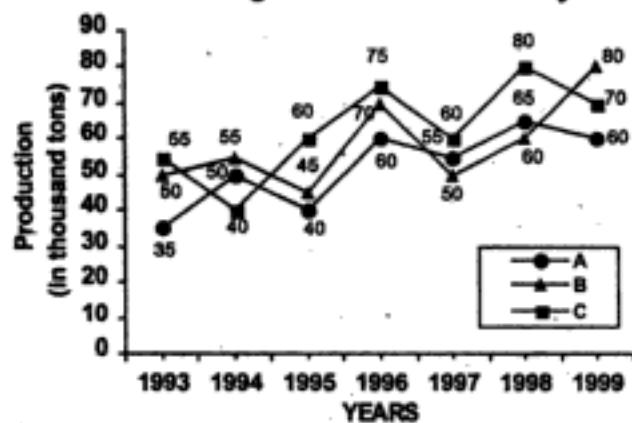
13. 12 men can complete a piece of work in 4 days, while 15 women can complete the same work in 4 days. 6 men start working on the job and after working for two days, all of them stopped working. How many women should be put on the job to complete the remaining work, if it is to be completed in 3 days?

- 1) 15
- 2) 22
- 3) 18
- 4) Data inadequate
- 5) None of these

14. A shopkeeper sells milk which contains 5% water. What quantity of pure milk should be added to 2 litres of milk (containing 5% water) so that proportion of water becomes 4%?
 1) 100 ml. 2) 250 ml.
 3) 400 ml. 4) 350 ml.
 5) None of these
15. 'A' and 'B' started a business in partnership investing Rs.20,000/- and Rs.15,000/- respectively. After six months 'C' joined them with Rs. 20,000/- What will be B's share in the total profit of Rs.25,000/- earned at the end of two years from the starting of the business?
 1) Rs. 9,000/- 2) Rs. 10,000/-
 3) Rs. 7,500/- 4) Rs. 9,500/-
 5) None of these

Directions (16-20): Study the following graph carefully and answer the questions given below it.

Production of sugar (in thousand tons) by three different sugar factories over the years

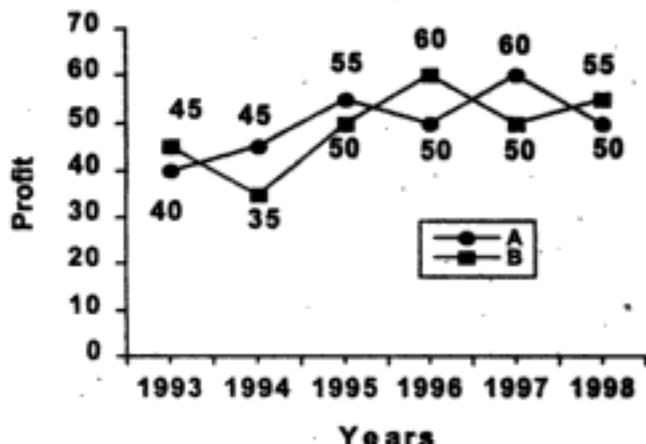


16. For which of the following pairs of years the total production of the three companies together is equal?
 (A) 1993-1994 (B) 1995-1997
 (C) 1996-1998 (D) 1994-1995
 1) (B) only 2) (C) only
 3) (D) only 4) Both (C) and (D)
 5) Both (B) and (C)
17. In which of the following years for company 'A' the per cent rise/fall from the previous year is the maximum?
 1) 1996 2) 1993
 3) 1995 4) 1998
 5) None of these

18. Average production per year for company 'B' is approximately what per cent of the average production per year for company 'C'?
 1) 105% 2) 85%
 3) 107% 4) 93%
 5) 97%
19. What is the per cent rise in production of company 'C' in 1996 from 1995?
 1) 20% 2) 22%
 3) 18% 4) 15%
 5) None of these
20. What is the difference between the average production of the three companies together in 1997 and the average production of the three companies together in 1999 in thousand tons?
 1) 20 2) 15
 3) 17 4) 22
 5) None of these
21. In a fraction, numerator is increased by 40%, and denominator is increased by 80%. Then what fraction of the old is the new fraction?
 1) $\frac{1}{2}$ 2) $\frac{7}{9}$
 3) $\frac{7}{18}$ 4) Data inadequate
 5) None of these
22. Arrange the letters of word AUCTION in such a way that the vowels always occur together. Find the number of ways.
 1) 576 2) 48
 3) 144 4) 30
 5) None of these
23. 2 metres broad pathway is to be constructed around a rectangular plot. The area of the plot is 96 sq.m. The cost of construction is Rs. 50 per sq. metre. Then find the total cost of production.
 1) Rs. 4,800 2) Rs. 4,000
 3) Rs. 2400 4) Data inadequate
 5) None of these
24. Mr. A lends 40% of sum at 15% p.a. 50% of rest sum at 10% p.a. and the rest at 18% p.a. rate of interest. What would be the

- rate of interest if the interest is calculated on the whole sum?**
- 13.4% p.a.
 - 14.33% p.a.
 - 14.4% p.a.
 - 13.33% p.a.
 - None of these
- 25. A sum of Rs.5000/- amounts to Rs. 6,050/- in two years. What is the rate of interest?**
- 15% p.a.
 - 13% p.a.
 - 11% p.a.
 - 21% p.a.
 - None of these
- Directions (26-30): Study the following table carefully and answer the question given below. Marks obtained by seven students in different subjects in their annual school examination. Maximum marks is given in bracket.**
- | Student/Subject | A | B | C | D | E | F | G |
|----------------------|-----|-----|-----|-----|-----|-----|-----|
| Physics (100) | 65 | 58 | 73 | 75 | 68 | 56 | 51 |
| Chemistry (100) | 59 | 63 | 69 | 52 | 71 | 49 | 72 |
| Maths (150) | 132 | 105 | 141 | 128 | 119 | 120 | 135 |
| Social Studies (200) | 138 | 126 | 162 | 144 | 150 | 118 | 132 |
| English (50) | 32 | 27 | 33 | 41 | 29 | 35 | 37 |
| Biology (150) | 105 | 98 | 112 | 106 | 119 | 107 | 96 |
| Total (750) | 531 | 477 | 590 | 546 | 556 | 485 | 523 |
- 26. Approximately what is the maximum difference between the percentage of total marks obtained by any two students?**
- 15
 - 10
 - 12
 - 17
 - 14
- 27. Approximately what is the average of marks obtained by the seven students in Biology?**
- 126
 - 116
 - 106
 - 96
 - 102
- 28. What is the difference between the percentage of marks obtained by student 'E' in Chemistry and Maths together and the percentage of marks obtained by student 'A' in Social Studies and English together?**
- 6
 - 8
 - 12
 - 14
 - None of these
- 29. Approximately what are the average marks obtained by the seven students in Physics?**
- 62
 - 61
 - 65
 - 66
 - 64
- 30. What is the percentage of marks obtained by student 'F' in Biology, English and Social Studies together?**
- 58
 - 56
 - 68
 - 65
 - None of these
- 31. Srinivasan invests two equal amounts in two banks giving 10% and 12% rate of interest respectively. At the end of year the interest earned is Rs.1650/-. Find the sum invested in each.**
- Rs. 8,500
 - Rs. 15,000
 - Rs. 7,500
 - Rs. 17,000
 - None of these
- 32. Two cars start at the same time from A and B which are 120 km apart. If the two cars travel in opposite direction they meet after one hour and if they travel in same direction (from A towards B) then A meets B after 6 hours. What is the speed of the car starting from A?**
- 70 kmph
 - 120 kmph
 - 60 kmph
 - Data inadequate
 - None of these
- 33. In a group of 6 boys and 4 girls 4 children are to be selected. In how many different ways can they be selected such that at last one boy should be there?**
- 159
 - 205
 - 194
 - 209
 - None of these
- 34. If the length of a rectangle is increased by 50% and the breadth is decreased by 20%. Then what is the percentage change in the area?**
- by decrease 20%
 - 20% increase
 - 80% increase
 - 30% increase
 - None of these
- 35. Find the speed of train in km/hr whose length is 200 m and crosses a platform of length 240 m in 22 seconds.**
- 60
 - 48
 - 53
 - Data inadequate
 - None of these

Directions (36-40): Study the graph carefully and answer the questions given below it.



36. The income of Company B in the year 1994 was Rs. 108000/- . How much was expenditure in that year?
 1) Rs. 900000 2) Rs. 80000
 3) Rs. 185000 4) Rs. 195000
 5) None of these
37. Company A spent Rs. 3,50,000 in the year 1995. Find out the income of Company A in that year.

Directions (41-45): Study the given table carefully and answer the questions given below.

The given table represents the no. of candidates appeared and qualified during 1991 to 1996 from 6 states.

Year State	1991		1992		1993		1994		1995		1996	
	app.	qual.										
A	5600	840	7250	925	8250	876	7856	824	8349	932	7964	853
B	7200	864	8100	640	7865	792	8425	896	7658	878	8107	940
C	4850	588	6450	650	7120	685	7763	735	6984	792	7058	827
D	6325	745	7185	795	8545	842	6987	898	5896	685	6754	746
E	5200	640	6225	685	7962	934	7645	888	7389	843	7766	812
F	6500	820	7380	860	6895	788	7844	762	8105	798	8934	911

41. In which of the given years the No. of candidates appeared from state D has maximum percentage of qualified candidates.
 1) 1992 2) 1995
 3) 1993 4) 1994
 5) None of these
42. What is the difference between total candidates appeared in six states in the year 1991 and 1993?
- 1) Rs. 15,42,500 2) Rs. 15,25,000
 3) Rs. 15,25,800 4) Rs. 12,33,000
 5) None of these
38. If the expenditures of both the Companies A and B in the year 1997 was equivalent, then what was the ratio between the income of Company A to Company B?
 1) 15 : 6 2) 6 : 15
 3) 16 : 5 4) 15 : 6
 5) None of these
39. In which of the following years was the maximum percentage of growth/decline with respect to the previous year in case of Company B?
 1) 1997-98 2) 1994-95
 3) 1996-97 4) 1995-96
 5) None of these
40. The expenditure of Company A in the year was Rs. 2,50,000 and the income of 1995 was the expenditure in the year 1996. Find out its income in the year 1996.
 1) Rs. 13,87,500 2) Rs. 15,12,500
 3) Rs. 15,51,250 4) Rs. 15,87,500
 5) None of these

- 44.** What is the difference between total qualified candidates in six states in the years 1993 and 1996?
- 217
 - 172
 - 168
 - 226
 - None of these
- 45.** What is the per cent of the total qualified candidates to the total number of appeared candidates among all the six states in 1996?
- 15
 - 11
 - 19
 - 13
 - 14
- 46.** In a competitive examination in State 'A', 6% candidates got selected from the total appeared candidates. State 'B' has an equal number of candidates appeared and 7% candidates got selected with 80 more candidates got selected than state 'A'. What was the number of candidates appeared from each state?
- 8000
 - 8400
 - 7600
 - Date inadequate
 - None of these
- 47.** Four of the following five parts numbered (1), (2), (3), (4) and (5) are equal. Number of the part which is not equal to the other four parts is the answer.
- $136 \times 12 + 17 + 4 =$
 - $152 \times 12 + 19 + 48 + 12 =$
- 48.** What will come in place of both the question marks (?) in the following equation?
- $$\frac{72}{\sqrt{?}} = \frac{?}{24}$$
- 12
 - 144
 - 36
 - 24
 - None of these
- 49.** The radius of the cylinder is half of its height and area of the inner part is 616 sq. metres. Approximately how many litres of milk can its contain?
- 1.4
 - 1.5
 - 1.9
 - 1.7
 - 2.2
- 50.** A shopkeeper sells 25 articles at Rs. 45/- per article after giving 10% discount and gains 50% profit. If the discount is not given what is the profit gained?
- 60%
 - $60\frac{2}{3}\%$
 - $66\frac{2}{3}\%$
 - 66%
 - None of these

TEST OF REASONING

Directions (1-4): Study the following information carefully and answer the questions given below.

- (i) Six books on different subjects viz., Physics, Chemistry, Mathematics, Zoology, English and History are placed one above the other but not necessarily in the same order. Each book belongs to different persons viz., A, B, C, D, E and F but not necessarily in the same order.
- (ii) Only the book Zoology, which belongs to F, is placed between the books of History and Chemistry. The book of English is just above the book of Chemistry and just below the book of Physics. The book of Mathematics is not kept above the book of Zoology.
- (iii) The book of B is neither on the top nor at the bottom. The book of Chemistry of D is kept just

below the book of A. The book of E is at the bottom.

- 1. On which subject does B have the book?**
 - Chemistry
 - English
 - History
 - Data inadequate
 - None of these
- 2. Which of the following books is kept on the top?**
 - Mathematics
 - English
 - Zoology
 - Physics
 - None of these
- 3. Who among the following does have book of History?**
 - B
 - E
 - C
 - Data inadequate
 - None of these

4. Which of the following books is third from the bottom?
 1) Chemistry 2) Zoology
 3) History 4) English
 5) None of these
- Directions (5-8): Study the following information carefully and answer the questions given below it.**
- (1) Six boys $B_1, B_2, B_3, B_4, B_5, B_6$ and six girls $C_1, C_2, C_3, C_4, C_5, C_6$ are standing in rows in such a way that each girl faces one boy, not necessarily in the same order.
- (2) C_1 is to the immediate right of the girl who is facing B_5 , the boy at the extreme right. Only B_2 is between B_4 and B_5 . B_6 is to the immediate left of B_1 and to the immediate right of B_3 . C_3 is facing B_1 and is to the immediate left of C_2 . C_6 is third to the left of C_4 .
5. Which of the following girls is facing B_4 ?
 1) C_5 2) C_4
 3) C_3 4) C_6
 5) None of these
6. Which of the following pairs of a boy and a girl is at one of the extreme ends?
 1) C_1, B_5 2) C_4, B_5
 3) C_5, B_2 4) Data inadequate
 5) None of these
7. Which of the following boys is to the immediate left of B_4 ?
 1) B_1 2) B_2
 3) B_1 or B_2 4) Data inadequate
 5) None of these
8. Who is facing C_2 ?
 1) B_1 2) B_6
 3) B_4 4) Data inadequate
 5) None of these
9. In a certain code language 'go for morning walk' is written as '\$*?#', 'good for health' is written as '£?@' and 'good to walk fast' is written as '+@↑#', then what is the code for 'health' in that language?
 1) £ 2) ?
 3) # 4) +
 5) None of these
10. In a certain code language 'ROUTINE' is written as 'VMRGFLI'. How will be 'CRUELTY' written in that code language?
 1) VPVCZRL 2) VPCVZRL

- 3) WPCVZRL 4) VOCVZRL
 5) None of these
11. In a certain code language the word DISTURB is written as DTWVUKF. How will the word FRANTIC be written in that code language?
 1) EKUPDTH 2) FKCPVTH
 3) EKVPCTH 4) FLVPCTH
 5) None of these
12. If 'A \$ B' means 'A is brother of B', 'A @ B' means 'A is wife of B', 'A # B' means 'A is daughter of B' and 'A * B' means 'A is father of B', then which of the following expressions indicate the relationship 'U is father-in-law of P'?
 1) P@Q\$T#U*W 2) P@W\$Q*T#U
 3) P@Q\$W*T#U 4) P@Q\$T#W*U
 5) None of these
13. Six friends, A, B, C, D, E and F joined an Institute in the year 1993 but on different days. Only E has joined before C and after D. C joined immediately before A and immediately after B. F is not the first or the last person to join. Who is the first person joining the Institute?
 1) D 2) B
 3) A 4) Data inadequate
 5) None of these
14. If 'M × N' means 'M is the daughter of N', 'M + N' means 'M is the father of N', 'M ÷ N' means 'M is the mother of N' and 'M - N' means 'M is the brother of N' then in the expression 'P ÷ Q + R - T × K', how 'P is related to K'?
 1) Daughter-in-law 2) Sister-in-law
 3) Aunt 4) Mother
 5) None of these

Directions (15-21): Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Mark answer (1): If the inference is "definitely true" i.e., it properly follows from the statement of facts given.

Mark answer (2): If the inference is "probably true" though not "definitely true" in the light of the facts given.

Mark answer (3): If the data are inadequate i.e., from the facts given you cannot say whether the inference is likely to be true or false.

Mark answer (4): If the inference is "probably false" though not "definitely false" in the light of the facts given.

Mark answer (5): If the inference is "definitely false" i.e., it cannot possibly be drawn from the facts given or it contradicts the facts.

Procurement of wheat is in full swing in the northwestern states of India. By June end, public agencies are likely to end up with foodgrain stocks of about 40 to 42 million tonnes, the highest ever witnessed in the history of this country. This stock should be more than sufficient to ensure that the country's "food security" is not endangered even if India faces two consecutive droughts. But strangely enough, while the granaries overflow, there is still widespread hunger in the country even without a drought. The estimates of poverty are being debated, but broadly one-third of India seems to remain underfed. And this co-existence of grain surpluses with large scale hunger should make any serious policy maker think and examine the existing policy mix with a view to ensure faster economic growth and reduction in poverty.

15. India's foodgrains stock has been satisfactory over the past few years.
16. India, at present, is one of the countries in the world to have sufficient food for its people.
17. The distribution of foodgrains to the masses has remained a problem area for India.
18. The policy of India needs to be revamped to reduce the extent of poverty in the country.
19. India always maintains foodgrain stocks to withstand two consecutive droughts.
20. More than 30 per cent of population in India do not even get two times meals per day.
21. The policy makers in India are unaware of prevalent hunger.

Directions (22-26): Study the following information carefully and answer the questions given below.

A word arrangement machine when given an input line of words rearranges it in every step following a certain rule. Following is an illustration of an input line of words and various steps of rearrangement:

Input : gone are take enough brought station
Step I : take gone are enough brought station
Step II : take are gone enough brought station
Step III : take are station gone enough brought
Step IV : take are station brought gone enough
 And, Step IV is the last step for this input. Now find out appropriate step in each of the following questions following the above rule.

22. **Input : car on star quick demand fat.**
What will be the third step for this input?
 - 1) star car quick demand on fat
 - 2) star quick car demand on fat
 - 3) star car demand quick on fat
 - 4) star car quick on demand fat
 - 5) None of these
23. **If Step III is 'ultra barrack save enough party lying'.**
Which of the following would be the Input?
 - 1) ultra enough party save barrack lying
 - 2) ultra barrack enough party save lying
 - 3) ultra enough barrack save party lying
 - 4) enough ultra barrack save party lying
 - 5) Cannot be determined
24. **If Step IV of input is 'violet for sour height journey medium'.**
Which of the following would be Step II of that input?
 - 1) violet journey height for sour medium
 - 2) violet for sour journey height medium
 - 3) violet for journey.height sour medium
 - 4) violet for sour height journey medium
 - 5) Cannot be determined
25. **If Step III of an input is 'warden examination town ink garden restore'.**
What step would be 'warden ink town garden restore examination'?
 - 1) I
 - 2) II
 - 3) IV
 - 4) V
 - 5) None of these
26. **Input : ink hurry yet for the victory.**
Which of the following will be the last step of the above input?
 - 1) III
 - 2) IV
 - 3) V
 - 4) VI
 - 5) None of these

Directions (27-31): Study the following information carefully and answer the questions given below.

The consonants of English alphabet have been coded by using digits 1 to 8 and the vowels have been coded by using different symbols.

Letters	G	B	K	H	Z	M	F
R	V	C	S	D	Q	X	
J	N	T	L	W	Y	P	
Digit	5	4	1	3	2	8	7

If any vowel is not in the beginning nor in last, it is coded as '6'. If any vowel is at the beginning or in the last, it is coded as '9'. However, if the same vowel is placed at both beginning and in the last, it is coded as '\$' at both the places.

How the following letter-groups will be coded?

27. PKDEJHI

- 1) 712653\$
- 2) 7129539
- 3) 7126539
- 4) 712\$53\$
- 5) None of these

28. AFDQENI

- 1) 9728649
- 2) \$72864\$
- 3) 9728949
- 4) 6728949
- 5) None of these

29. OPTIONAL

- 1) \$7166463
- 2) \$7199493
- 3) 67199493
- 4) 97166463
- 5) None of these

30. EGTARLQE

- 1) 95165389
- 2) 65195386
- 3) \$519538\$
- 4) \$51\$538\$
- 5) None of these

31. ENIANGE

- 1) \$4\$\$45\$
- 2) 9466459
- 3) \$46645\$
- 4) 4699456
- 5) None of these

Directions (32-36): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and

Give answer (1) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

Give answer (2) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

Give answer (3) if the data either in statement I alone or in statement II alone are sufficient to answer the question.

Give answer (4) if the data even in both statements I and II together are not sufficient to answer the question.

Give answer (5) if the data in both statements I and II together are necessary to answer the question.

32. Who is the shortest among P, Q, R, S and T?

Statements:

- I. Q is taller than T but shorter than S and R.
- II. P is not the shortest

33. On which day of week Mohan did reach Delhi?

Statements:

- I. Mohan left Mumbai by train on Tuesday.
- II. Mohan stayed for one day in Jaipur and completed his journey to Delhi in two days.

34. How many sons does P have?

Statements:

- I. T and S are brothers of R.
- II. The mother of S is the wife of R's father.

35. What does a "ja" represent in a code language?

Statements:

- I. In that code language "pik ja sok pot" means "you can stay here".
- II. In that code language "jo sok ton te" means "you may come here"?

36. City M is situated in which direction with respect to City D?

Statements:

- I. City K is to the south of City P.
- II. City M is to the north of City R, which is to the west of City D.

Directions (37-40): Study the following information carefully and answer the questions given below it.

- (i) Seven subjects Sociology, Psychology, English, History, Geography, Economics and

Hindi are taught between Monday and Friday by five persons A, B, C, D and E.

- (ii) Each person teaches at least one subject. At least one subject is taught every day. No person teaches two subjects on the same day. B teaches Sociology on Wednesday, History is taught by E but not on Monday or Thursday. English is taught on Monday by A. Geography and Economics are taught on Monday and Tuesday respectively. D teaches only one subject Psychology on Tuesday. Geography is not taught by E or B.

37. Who teaches Geography?

- 1) C 2) E
- 3) B 4) Data inadequate
- 5) None of these

38. Which subject is taught on Friday?

- 1) Hindi 2) Economics
- 3) History 4) Data inadequate
- 5) None of these

39. Who teaches Economics?

- 1) E 2) A
- 3) B 4) Data inadequate
- 5) None of these

40. Which subject is taught on Thursday?

- 1) History 2) Economics
- 3) Geography 4) Data inadequate
- 5) None of these

Directions (41-46): In the following questions the symbols @, @, ©, © and \$ are used with the following meaning.

P @ Q means P is greater than Q.

P \$ Q means P is equal to Q.

P @ Q means P is neither greater than nor equal to Q.

P © Q means P is either smaller than or equal to Q.

P © Q means P is either greater than or equal to Q.

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions, numbered I and II given below them is/are definitely true?

Give answer (1) if only conclusion I is true.

Give answer (2) if only conclusion II is true.

Give answer (3) if either I or II is true

Give answer (4) if neither I nor II is true

Give answer (5) if both I and II are true

41. Statements:

M @ K, P © K, K \$ T

Conclusions:

- I. P \$ T
- II. M @ T

42. Statements:

R @ M, M \$ P, P © T

Conclusions:

- I. R @ T
- II. R \$ T

43. Statements:

T © N, R @ N, R © K

Conclusions:

- I. N @ K
- II. T © K

44. Statements:

M @ R, R \$ A, A © K

Conclusions:

- I. K @ M
- II. K © R

45. Statements:

P © M, M @ K, K \$ T

Conclusions:

- I. P \$ M
- II. T @ P

46. Statements:

M @ R, R © K, K © N

Conclusions:

- I. N @ R
- II. N @ M

Directions (47-54): Read the following information carefully and answer the given questions: Following are the criteria for appointing a Personnel Manager for a company. The candidate must

- (A) not be more than 35 years as on 1.6.2000
- (B) be a postgraduate in personnel management
- (C) have work experience as personnel officer/ manager of at least five years.

- (D) have good command over English

In the case of a candidate

- (i) who satisfies all the other criteria except at (A) above but has work experience as personnel manager for at least 10 years, his/her case may be referred to Director (Personnel) for consideration.
- (ii) who satisfies all the other criteria except at (C) above but has obtained Ph.D. degree in Personnel Management, his/her case may be referred to Managing Director for consideration.

You are given the following cases on 1.6.2000. Depending upon the information provided in each case in each of the questions given below and based on the criteria mentioned above, recommend your decision. You are not to assume anything. Mark your answer as per the following:

Mark answer (1) if the candidate is to be selected.

Mark answer (2) if the candidate is not to be selected.

Mark answer (3) if the case is to be referred to Director (Personnel).

Mark answer (4) if the case is to be referred to Managing Director.

Mark answer (5) if complete information is not provided.

47. Kamini Gadgil is a post-graduate in Personnel Management and was born on 15th August 1967. She has been working in a company for the last 10 years as Personnel Officer.
48. Aditi Sahay is a doctorate (Ph.D.) in Personnel Management. She has been working in a company as personnel officer for the last two years. She has good command over English and was born on 2nd November 1964.

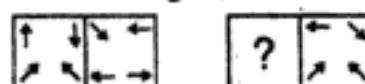
49. Vijay Kulkarni is a graduate in personnel management. He was 32 years old as on 1st December 1999. He has good command over English and has been working in a company as personnel manager for the last 12 years.

50. Pradeep Sarkar is a post-graduate in Personnel Management and he has been working in a company as a Personnel Manager for the last 15 years. He has good command over English and his date of birth is 13th April, 1964.

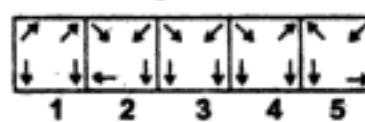
51. Praveen Chopra is a post-graduate in Personnel Management and he has been working in a company as Personnel Officer for the last 7 years. He has good command over English and his date of birth is 20th March, 1967.
52. Priya Karkhanis was born on 25th January 1968. She has been working in a company as Personnel Manager for the last three years. She has good command over English. She has done Ph.D. in Personnel Management.
53. Nirmala Pandey has passed postgraduation examination in Personnel Management. She has good command over English and she has been working in a company as Personnel Officer for the last five years. She was born on 17th May, 1969.
54. Anees Ahmad is a post-graduate in Personnel Management. He has been working as Personnel Officer for the last seven years. He has good command over English.

Directions (55-59): The second figure is the first unit of the problem figures bear a certain relationship to the first figure. Similarly one of the figures in the answer figures bears the same relationship to the second figure in the second unit of the problem figures. You are therefore to locate the figure which would fit the question mark.

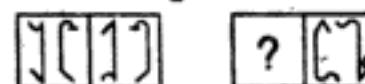
55. Problem Figures



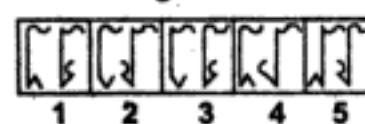
Answer Figures



56. Problem Figures



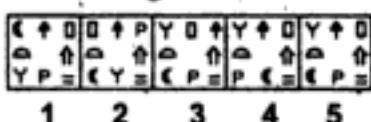
Answer Figures



57. Problem Figures



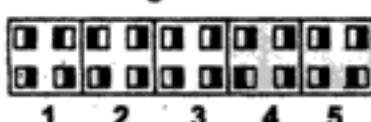
Answer Figures



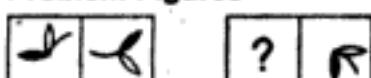
58. Problem Figures



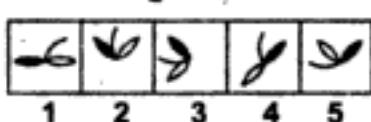
Answer Figures



59. Problem Figures



Answer Figures



Directions (50-65): In each question below is given a statement followed by two courses of action I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy, etc. on the basis of the information given in the statement. You have to assume everything in the statement to be true, then decide which of the given suggested courses of action(s) logically follows for pursuing.

Give answer (1) if only I follows.

Give answer (2) if only II follows.

Give answer (3) if either I or II follows

Give answer (4) if neither I nor II follows

Give answer (5) if both I and II follow.

60. Statement: Severe drought is reported to have set in several parts of the country.

Courses of Action:

- Govt. should immediately make arrangement for providing financial assistance to those affected.
- Food, water and fodder should immediately be sent to all these areas to save the people and cattle.

61. Statement: A larger number of lower ranked politicians are murdered by antisocial elements in City A.

Courses of Action:

- All those in the city with criminal records should immediately be arrested.
- The city police should keep a close vigil on the movements of antisocial elements so as to prevent future attacks.

62. Statement: It is reported that though Vitamin E present in fresh fruits and fresh vegetables is beneficial for human body, capsules Vitamin E does not have same effect on human body.

Courses of Action:

- The sale of capsules Vitamin E should be banned
- People should be encouraged to take fresh fruits and fresh vegetables to meet the body requirement of Vitamin E.

63. Statement: India has been continuously experiencing military threats from its neighbouring countries.

Courses of Action:

- India should engage into an all out war to stop the nagging threats.
- India should get the neighbours into a serious dialogue to reduce the tension at its borders.

64. Statement: India has now been recognised by the Western World as a vast resource of knowledge and are eager to use the same.

Courses of Action:

- India should exploit this opportunity to hasten its economic growth.
- India should bargain effectively with the Western World and become a super power in South Asia.

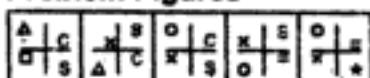
65. Statement: It is estimated that about twenty lakhs people will visit the city during the ensuing festival.

Courses of Action:

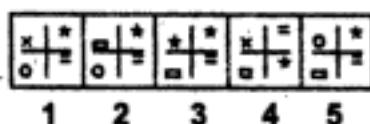
- The civic authority should make adequate arrangements to tackle the situation.
- All the hospitals in the city should be put on high alert in case of any eventuality.

Directions (66-70): In each of the questions given below which one of the five answer figures should come after the problem figures if the sequence were continued?

66. Problem Figures

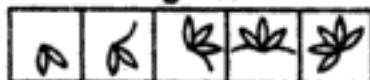


Answer Figures

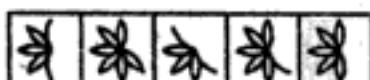


1 2 3 4 5

67. Problem Figures

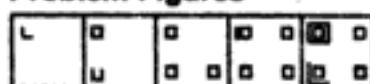


Answer Figures

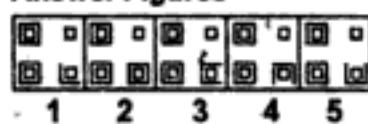


1 2 3 4 5

68. Problem Figures

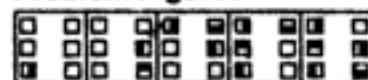


Answer Figures



1 2 3 4 5

69. Problem Figures

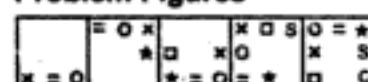


Answer Figures

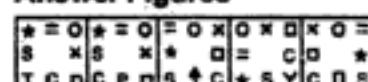


1 2 3 4 5

70. Problem Figures

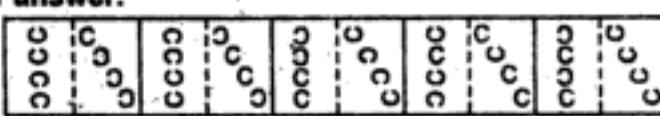
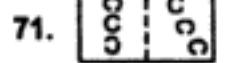


Answer Figures



1 2 3 4 5

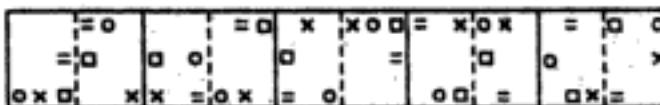
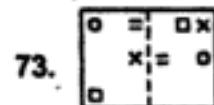
Directions (71-75): In each of these questions, a related pair of figures (unnumbered) is followed by five numbered pairs of figures. Out of these five, four have relationship similar to that in the original pair. Only one pair of figures does not have similar relationship. Select that pair of figures which does not have a similar relationship to that in the unnumbered pair. Number of that figure is your answer.



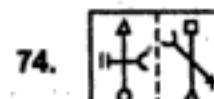
1 2 3 4 5



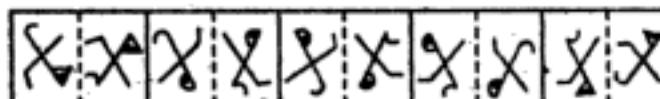
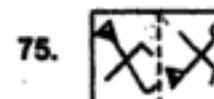
1 2 3 4 5



1 2 3 4 5



1 2 3 4 5



1 2 3 4 5

ANSWERS**GENERAL AWARENESS**

1. 2	2. 2	3. 1	4. 3	5. 3	6. 2	7. 4	8. 3	9. 4	10. 4
11. 3	12. 2	13. 1	14. 5	15. 2	16. 1	17. 3	18. 3	19. 2	20. 1
21. 3	22. 1	23. 5	24. 2	25. 1	26. 4	27. 2	28. 3	29. 5	30. 4
31. 5	32. 5	33. 4	34. 1	35. 5	36. 1	37. 2	38. 3	39. 1	40. 1
41. 1	42. 4	43. 3	44. 2	45. 1	46. 1	47. 1	48. 3	49. 3	50. 4

ENGLISH

1. 4 2. 1 3. 3 4. 5 5. 2 the top, the bottom, not a top, a bottom.
6. 3 7. 4 8. 1 9. 5 10. 2 22. 5 23. 3 24. 5
11. (1) "A contented man ... charity". "By pursuing happiness". From these two statements, we can decide in favour of (1).
12. (5) See the 2nd paragraph: "Simple living encourages high thinking. It leads to contentment. Contentment gives us inner wealth". So the correct sequence is
Simple living, high thinking, contentment, inner wealth.
13. (2) From the sentence, "In doing one's duty ... is an important essence of happiness", which comes just before the last paragraph, it is clear that (2) is the answer.
14. (3) "We are unhappy partly because we desire much more than what we can hope to attain" - First Paragraph.
15. (2) In one place it is said that "the secret of perfect happiness lies in renunciation". So we can say that **perfect happiness** is the result of renunciation. Hence statement (2) is just the opposite of what is said in the passage, and so it is wrong.
16. (1) Fleeting (adj) means passing quickly, lasting only a very short time. So the word opposite in meaning to this (i.e.,) the antonym of this word is 'permanent'.
17. 2
18. (5) Cow (v) means make a person do as one wants by means of threats and mould (v) means guide, control, shape or influence.
19. 2 20. 4
21. (1) The article **the** is used before physical place (position) like **top, bottom** etc. So, we say
25. (2) In the given sentence, **holding** and **rendering** are two Participles. As **but also** is followed by **rendering** so **not only** must be followed by **holding**. (Participle). Therefore, **for holding not only** will have to be substituted with **for not only holding**. This alteration makes the sentence correct.
26. (4) **Last four days** denotes a period of time. We use **for** with period of time and **since** with point of time.
27. (2) We know when the Principal Clause in a sentence (Indirect) is in Past Tense, the Subordinate Clause also must be in Past Tense.
In the given sentence **I told him** (Principal Clause) is in Past Tense. So, **he is** must be replaced with **he was**.
28. (4) **One** (Subject) is in Third Person Singular Number. So, with **one** we can use **looks, does, etc.**
In the given sentence **one look** should be replaced with **one looks**.
29. (3) When the Subject of the Verb is a Relative Pronoun care should be taken to see that the Verb agrees in Number and Person with the antecedent of the Relative Pronoun.
In the given sentence **who** is a Relative Pronoun, and the antecedent is **those** which is in plural number. So, **is** should be replaced with **are**.
30. (3) **For all these years** denotes a period of time. So, **we are working** (Present

Continuous) should be replaced with we have been working (Present Perfect Continuous).

31. 1 32. 1 33. 4 34. 3 35. 2

36. 2

37. (3) The word to be filled in would ideally be an antonym of the word 'facts'. The required word should mean 'mere outward appearance'. Hence the word 'projections' is the most suitable one.

38. (5) **Mitigate** (v) means make (something) less severe, violent or painful; moderate: mitigate somebody's suffering, anger, anxiety etc.

It is appropriate to say - He spent whole of his life in mitigating the miseries of the downtrodden people.

39. (3) **Salubrious** (adj) means (specially of the climate) health giving: the salubrious

mountain air. So, the answer is (3).

40. 4

41. (3) **Penetrative** (adj) means that can penetrate.

42. (1) **Cover** (adj) means concealed; not open; secret; covert activities of a spy.

43. (5) **Acumen** (n) means ability to understand and judge things quickly and clearly, shrewdness: business acumen.

44. (1) **Extol** (v) means praise highly: extol the merits of small busines.

45. (4) **Illustrate** (v) means explain or make (something) clear by examples, diagrams, pictures, etc.; be an example.

For example,

The behaviour illustrates your selfishness.

46. 5 47. 4 48. 3 49. 2 50. 4

QUANTITATIVE APTITUDE

1. (2) The series is based on the following pattern:

$$8 \times 1 - 2 = 6$$

$$6 \times 2 - 3 = 9$$

$$9 \times 3 - 4 = 23$$

$$23 \times 4 - 5 = 87$$

$$87 \times 5 - 6 = 429$$

Similarly, the new series is as follows:

$$6 \times 1 - 2 = 4 \quad \dots(a)$$

$$4 \times 2 - 3 = 5 \quad \dots(b)$$

$$5 \times 3 - 4 = 11 \quad \dots(c)$$

$$11 \times 4 - 5 = 39 \quad \dots(d)$$

$$39 \times 5 - 6 = 189 \quad \dots(e)$$

Therefore, the number 11 will come in place of (c)

2. (4) The series is based on the following pattern:

$$2 \times 1 + 1^2 = 3$$

$$3 \times 2 + 2^2 = 10$$

$$10 \times 3 + 3^2 = 39$$

$$39 \times 4 + 4^2 = 172$$

$$172 \times 5 + 5^2 = 885$$

Similarly, the new series is as follows:

$$1 \times 1 + 1^2 = 2 \quad \dots(a)$$

$$2 \times 2 + 2^2 = 8 \quad \dots(b)$$

$$8 \times 3 + 3^2 = 33 \quad \dots(c)$$

Therefore, the number 8 will come in place of (b)

3. (2) The series is based on the following pattern:

$$5 \times 1 + 2 = 7$$

$$7 \times 2 - 4 = 10$$

$$10 \times 3 + 6 = 36$$

$$36 \times 4 - 8 = 136$$

$$136 \times 5 + 10 = 690$$

Similarly, the new series is as follows:

$$2 \times 1 + 2 = 4 \quad \dots(a)$$

$$4 \times 2 - 4 = 4 \quad \dots(b)$$

$$4 \times 3 + 6 = 18 \quad \dots(c)$$

$$18 \times 4 - 8 = 64 \quad \dots(d)$$

$$64 \times 5 + 10 = 330 \quad \dots(e)$$

Therefore, the number 330 will come in place of (e).

4. (3)

5. (5) The series is based on the following pattern

$$8 \times 0.5 = 4; 4 \times 1.5 = 6; 6 \times 2.5 = 15;$$

$$15 \times 3.5 = 52.5; 52.5 \times 4.5 = 236.25$$

Similarly, the new series is as follows:

$$4 \times 0.5 = 2 \quad \dots(a)$$

$$2 \times 1.5 = 3 \quad \dots(b)$$

$$3 \times 2.5 = 7.5 \quad \dots(c)$$

$$7.5 \times 3.5 = 26.25 \quad \dots(d)$$

Therefore, the number 26.25 will come in place of (d).

6. (4) To find percentage profit we need either C.P. or selling price. Statement (C) gives the C.P. of the article. Statement (B and A)

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16. (4) Year Total Production (in '000 tons)

1993	140
1994	145
1995	145
1996	205
1997	165
1998	205
1999	210

∴ Both C and D

17. (1) 1995 → increases by 50%
i.e., (40 to 60) thousand tons.

18. (4) Average production of B = $\frac{410}{7} = 58.57$

Average production of C = $\frac{440}{7} = 62.86$

∴ Required percentage = $\frac{\frac{410}{7}}{\frac{440}{7}} \times 100 = 93\%$

19. (5) Required percentage = $\frac{\text{increase}}{\text{original}} \times 100$
 $= \frac{75 - 60}{60} \times 100 = 25\%$

20. (2) Average production of three companies in

1997 = $\frac{165}{3} = 55$

In 1999 = $\frac{210}{3} = 70$

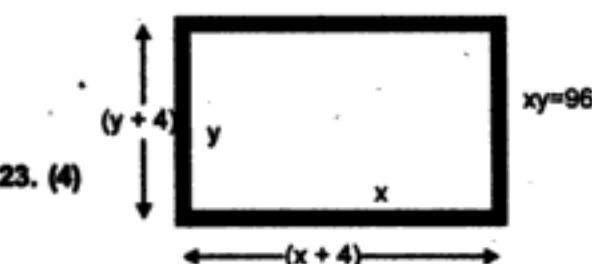
∴ Difference = $70 - 55 = 15$

21. (2) Let the fraction = $\frac{x}{y}$

The new fraction = $\frac{\frac{140}{100} \text{ of } x}{\frac{180}{100} \text{ of } y} = \frac{7}{9} \left(\frac{x}{y} \right)$

∴ The new fraction = $\frac{7}{9}$ of original fraction

22. (1) No. of ways = $4! \times 4! = 24 \times 24 = 576$ ways



23. (4)

$$(x+4)(y+4) = xy + 4(x+y) + 16 \\ = 96 + 4(x+y) + 16$$

$$\text{New Area} = 112 + 4(x+y)$$

∴ we should have either x or y to complete the question.

24. (3) Let the amount be Rs.x

Investment is done as given below

$$\text{Amount left} = x - \frac{40}{100}x = \frac{60x}{100}$$

$$\frac{40x}{100} \text{ at } 15\% \text{ p.a.}$$

$$\frac{50}{100} \text{ of } \frac{60x}{100} = \frac{30x}{100} \text{ at } 10\% \text{ p.a.}$$

Rest amount

$$= x - \frac{40x}{100} - \frac{30x}{100} = \frac{30x}{100} \text{ at } 18\% \text{ p.a.}$$

Interest earned by each at end of 1 year

$$\text{By 1st} \Rightarrow \frac{15}{100} \times \frac{40x}{100} = \frac{60}{1000}x$$

$$\text{By 2nd} \Rightarrow \frac{10}{100} \times \frac{30x}{100} = \frac{30}{1000}x$$

$$\text{By 3rd} \Rightarrow \frac{18}{100} \times \frac{30x}{100} = \frac{54}{1000}x$$

$$\text{Total interest} = \frac{144}{1000}x$$

$$\therefore \text{Rate \%} = \frac{\frac{144x}{1000}}{x} \times 100$$

$$= 14.4\%$$

25. (5) $A = P \left[1 + \frac{R}{100} \right]^T$

$$6050 = 5000 \left[1 + \frac{R}{100} \right]^2$$

$$\frac{6050}{5000} = \left[1 + \frac{R}{100} \right]^2$$

$$\sqrt{\frac{121}{100}} = 1 + \frac{R}{100} = \frac{11}{10}$$

$$\frac{R}{100} = \frac{11}{10} - 1$$

$$R = \frac{1}{10} \times 100 = 10\%$$

26. (1) Maximum marks obtained = 590 = 78.6%
 Minimum marks obtained = 477 = 63.6%
 ∴ Maximum difference of percentage of marks = 15%

27. (3) Average marks in Biology

$$= \frac{105 + 98 + 112 + 106 + 119 + 107 + 96}{7}$$

$$= \frac{743}{7} = 106.14 \approx 106$$

28. (2) Marks of E (Chemistry + Maths) = 71+119=190

$$\text{Percentage marks} = \frac{190}{250} \times 100 = 76\%$$

$$\text{Marks of A (Social Studies + English)} = 138 + 32 = 170$$

Percentage marks

$$= \frac{170}{250} \times 100 = 68\%$$

$$\therefore \text{Difference in percentage marks} = 76 - 68 = 8\%$$

29. (5) Average marks in Physics

$$= \frac{65 + 58 + 73 + 75 + 68 + 56 + 51}{7}$$

$$= \frac{446}{7} = 63.71 \approx 64$$

30. (4) Marks of F (Biology + English + Social Studies) = 107 + 35 + 118 = 260

$$\text{Percentage marks} = \frac{260}{400} \times 100 = 65\%$$

31. (3) Let sum be Rs.x

According to the question,

$$\frac{x \times 10 \times 1}{100} + \frac{x \times 12 \times 1}{100} = 1650$$

$$22x = 1650 \times 100$$

$$x = \frac{1650 \times 100}{22} = 7500$$

32. (1) Let speed of car starting at A = x km/hr and speed of car starting at B = y km/hr

$$\therefore x + y = 120 \quad \dots (i)$$

$$6x - 6y = 120 \quad \dots (ii)$$

$$\therefore x = 70 \text{ km/hr}; y = 50 \text{ km/hr.}$$

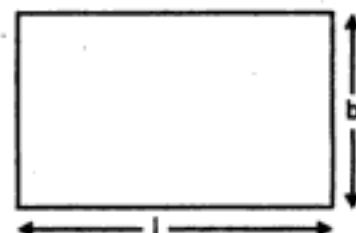
33. (4) No. of ways

$$6C_4 + (6C_3 \times 6C_1) + (6C_2 \times 4C_2) + (6C_1 \times 4C_3)$$

$$= 15 + (20 \times 4) + (15 \times 6) + (6 \times 4)$$

$$= 15 + 80 + 90 + 24 = 209$$

34. (2)



$$\text{Original area} = lb$$

$$\text{New length} = \frac{150}{100}l = \frac{3}{2}l$$

$$\text{New breadth} = \frac{80}{100}b = \frac{4}{5}b$$

$$\text{New Area} = \frac{3}{2}l \times \frac{4}{5}b = \frac{6}{5}lb$$

$$\text{Change in area} = \frac{6}{5}lb - lb = \frac{1}{5}lb$$

$$\% \text{ change} = \frac{\frac{1}{5}lb}{lb} \times 100$$

= 20% (increase)

35. (5) Speed of train

$$= \frac{\text{length of (train + platform)}}{\text{time taken to cross}}$$

$$= \frac{440}{22} = 22 \text{ m/s}$$

$$= 20 \times \frac{18}{5} = 72 \text{ km/hr}$$

36. (5) 37. (5) 38. (5)

39. (5) 40. (5)

41. (4) In 1994 - 898 (maximum)

42. (3) In 1991 — $5600 + 7200 + 4850 + 6325 + 5200 + 6500 = 35675$
 In 1993 — $8250 + 7865 + 7120 + 8545 + 7962 + 6895 = 46637$
 Difference = $46637 - 35675 = 10962$

43. (1) Decrease is by 24
 Increase is by 1900

$$\text{Required percentage} = \frac{24 \times 100}{1900} = 1.25\%$$

44. (2) In 1993 — $876 + 792 + 685 + 842 + 934 + 788 = 4917$
 In 1996 — $853 + 940 + 827 + 746 + 812 + 911 = 5089$
 Difference = $5089 - 4917 = 172$

45. (2) Required percentage

$$= \frac{5089}{46583} \times 100 = 10.92\% = 11\%$$

46. (1) No. of candidates appeared in State A =
 No. of candidates appeared in State B = x

$$\therefore \frac{7x}{100} - \frac{6x}{100} = 80$$

$$x = 8000$$

47. (5) (1) = $136 \times 12 + 17 + 4 = 100$
 (2) = $152 \times 12 + 19 + 48 + 12$

$$= \frac{152 \times 12}{19} + \frac{48}{12} = 100$$

(3) = $268 + 67 \times 4^2 + 6^2$

$$= \frac{268 \times 16}{67} + 36 = 100$$

(4) = $234 + 13 \times 4 + 84 + 3$

$$= \frac{234 \times 4}{13} + \frac{84}{3} = 100$$

(5) = $378 + 42 \times 9 + 3^2 + 4$

$$= \frac{378 \times 9}{42} + 13 = 94$$

48. (2) $\frac{72}{\sqrt{?}} = \frac{?}{24} \Rightarrow 72 \times 24 = ? \sqrt{?}$

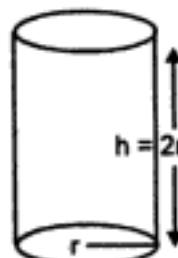
(Squaring both sides)

$$(72 \times 24)^2 = (?)^3$$

$$? = \sqrt[3]{72 \times 72 \times 24 \times 24}$$

$$= \sqrt[3]{24 \times 24 \times 24 \times 3 \times 8 \times 9}$$

$$= 24 \times 3 \times 2 = 144$$



$$\text{Volume of cylinder} = \pi r^2 h$$

$$V = \pi r^2 h (2r) = 2\pi r^3$$

$$\text{Curve Surface Area} = 2\pi r h$$

$$= 2\pi r (2r) = 4\pi r^2$$

$$4\pi r^2 = 616$$

$$r^2 = 49 \Rightarrow r = 7$$

$$\therefore V = 2\pi (7)^3 = 2156 \text{ cm}^3$$

$$= 2.156 \text{ litres } \approx 2.2 \text{ litres}$$

50. (3) Total marked price of article = $25 \times 45 =$
 Rs. 1125/-

Selling price (Giving 10% discount)

$$= \frac{90}{100} \text{ of } 1125 = 1012.5$$

Let cost price = Rs. x;
 profit % = 50

$$\therefore \frac{150}{100} x = 1012.5 \Rightarrow x = 675$$

Now the selling price is Rs. 1125
 then profit = $1125 - 675 = 450$

$$\% \text{ profit} = \frac{450}{675} \times 100 = 66 \frac{2}{3}\%$$

TEST OF REASONING

(1 - 4): On the basis of given information and conclusions as well as sub-conclusions drawn from them we can construct the following chart.

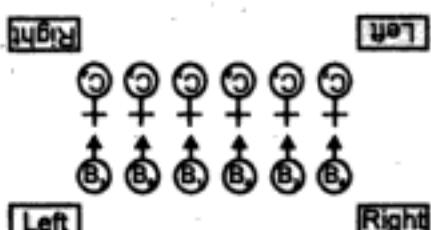
Book	Person
Physics	C
English	A

Chemistry	D
Zoology	F
History	B
Mathematics	E

- (3) B does have book on History.
- (4) The book of Physics is kept on the top.
- (1) B does have book on History.

4. (2) Zoology book is third from the bottom.

(5 - 8): The arrangement of boys and girls:

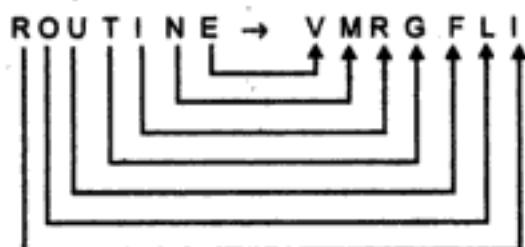


5. (4) The girl C_1 is facing the boy B_4 .
6. (2) The following pairs of boys and girls are at the extreme ends:
 $B_3, C_4, B_5, C_6, B_3, C_5, B_5, C_4$
7. (1) B_1 is to the immediate left of B_4 .
8. (2) B_6 is facing C_2 .
9. (1) go for morning walk $\rightarrow \$ * ? #$
good for health $\rightarrow \text{£} ? @$
good to walk fast $\rightarrow + @ \uparrow #$
It is clear that '£' stands for 'health'.
10. (5) The code has been generated by taking opposite letters in the reverse order.

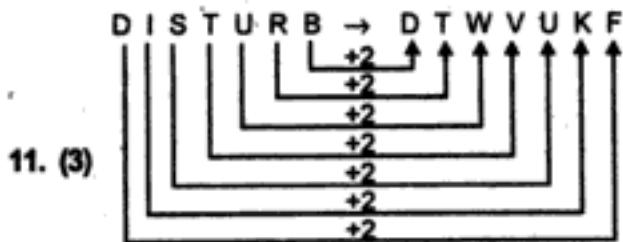
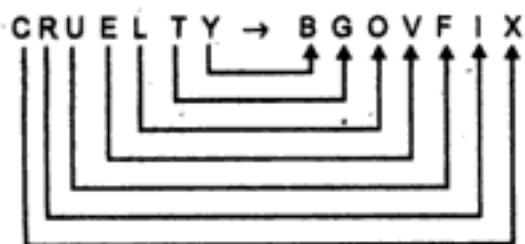
Series of Opposite Letters

A	B	C	D	E	F	G	H	I	J	K	L	M
↓	↑	↓	↑	↓	↑	↓	↑	↓	↑	↓	↑	↓
N	O	P	Q	R	S	T	U	V	W	X	Y	Z

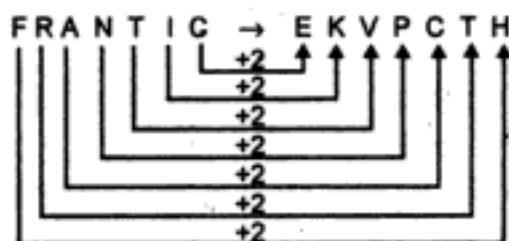
Thus,



Similarly,



Similarly,



12. (1) Option (1)

$P @ Q \$ T \# U * W$

$P @ Q \rightarrow P$ is wife of Q .

$Q \$ T \rightarrow Q$ is brother of T .

$T \# U \rightarrow T$ is daughter of U .

$U * W \rightarrow U$ is father of W .

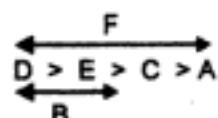
Deductions

U is father of Q, T and W . Q is husband of P .

Therefore, U is father-in-law of P .

13. (1) According to question $D > E > C$

$B > C > A$ and F is not the first or last person to join. Now,



Clearly, D joined the institute first.

14. (5) $P + Q + R - T \times K$

$P + Q \rightarrow P$ is the mother of Q .

$Q + R \rightarrow Q$ is the father of R .

$R - T \rightarrow R$ is the brother of T .

$T \times K \rightarrow T$ is the daughter of K .

Deductions

P is the grandmother of R and T .

Q is the father of R and T and T is the daughter of K . It means K is the wife of Q and mother of R and T .

Q is the son of P and hence P is mother-in-law of K .

15. (1) The statement "... while the granaries overflow grain surpluses" clearly supports the given inference.

16. (1) The statement "This stock should be more than sufficient to ensure that country's "food security" is not endangered ..." clearly supports the given inference.

17. (1) The statement "And this co-existence of grain surpluses with large scale hunger..." shows that distribution of foodgrains to the masses is not proper.

18. (1) The last sentence of the passage conveys the same idea.
 19. (5) The use of term "always" in the inference makes it contradictory to as what has been stated in the passage.
 20. (2) Refer to the sentence "The estimates of being debated seems to remain underfed". 'being debated' and 'seems to' imply uncertainty.
 21. (5) It is erroneous to infer that the policy makers in India are unaware of prevalent hunger. The last sentence of the passage indicates that there is need of adopting a suitable policy.

(22-26): On careful analysis of the given input and various steps it is evident that first of all words have been marked as they appear in a dictionary, from 1 to 6 and then the first three words have been arranged in alphabetical order while the fourth, fifth and sixth words have been arranged though in alphabetical order but in reverse order. In one step only one word is arranged and the sequence 6, 1, 5, 2, 4, 3 is followed.

Input :

4	1	6	3	2	5
gone	are	take	enough	brought	station

Step I :

6	4	1	3	2	5
take	gone	are	enough	brought	station

Step II :

6	1	4	3	2	5
take	are	gone	enough	brought	station

Step III :

6	1	5	4	3	2
take	are	station	gone	enough	brought

Step IV :

6	1	5	2	4	3
take	are	station	brought	gone	enough

22. (1) **Input :**

1	4	6	5	2	3
car	on	star	quick	demand	fat

Step I :

6	1	4	5	2	3
star	car	on	quick	demand	fat

Step II :

6	1	5	4	2	3
star	car	quick	on	demand	fat

Step III :

6	1	5	2	4	3
star	car	quick	demand	on	fat

Eventually this is the last step for the given input.

23. (5) From the given step it is not possible to determine the input.
 24. (5) From the latter step we cannot determine previous step.

25. (1) **Step III :**

6	1	5	3	2	4
warden	examination	town	ink	garden	restore
6	3	5	2	4	1

warden ink town garden restore examination

In this step only one word has been arranged and hence this could be step I.

26. (3) **Input :**

3	2	6	1	4	5
ink	hurry	yet	for	the	victory

Step I :

6	3	2	1	4	5
yet	ink	hurry	for	the	victory

Step II :

6	1	3	2	4	5
yet	for	ink	hurry	the	victory

Step III :

6	1	5	3	2	4
yet	for	victory	ink	hurry	the

Step IV :

6	1	5	2	3	4
yet	for	victory	hurry	ink	the

Step V :

6	1	5	2	4	3
yet	for	victory	hurry	the	ink

Thus, step V is the last step for this input.

27. (3) P K D E J H I
 ↓ ↓ ↓ ↓ ↓ ↓ ↓

28. (1) A F D Q E N I
 ↓ ↓ ↓ ↓ ↓ ↓ ↓

29. (4) O P T I O N A L
 ↓ ↓ ↓ ↓ ↓ ↓ ↓

30. (5) E G T A R L Q E
 ↓ ↓ ↓ ↓ ↓ ↓ ↓

31. (3) S 5 1 6 5 3 8 \$
 ↓ ↓ ↓ ↓ ↓ ↓ ↓

32. (5) From statement I
 S, R > Q > T

The position of P is not clear.

No answer.

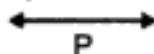
From statement II

P is not the shortest. Then, who is the shortest?

No answer.

From both the statements

$S, R > Q > T$



It is clear that T is the shortest.

33. (5) From statement I

Mohan started his journey from Mumbai on Tuesday.

No answer.

From statement II

Mohan took three days to reach to Delhi.
No answer.

But from both the statements we can solve the question.

34. (4) From statement I

T and S are brothers of R.

The sex of R is not given

No answer.

From statement II

S and R are children of same parents.

No answer.

From both the statements

T, S and R are children of the same parents.
T and S are males.

The sex of R is not given.

No answer

35. (4) From statements I and II

pikja sok pot → you can stay here

ja sok ton te → you may come here

No answer

36. (2) From the statement I

P

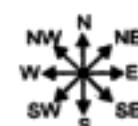
↓

K

No information about M and D

No answer

From statement II



It is clear that City M is in the North-West direction with respect to City D.

(37-40): On the basis of given information and conclusions as well as sub-conclusions drawn from them we can construct the following table:

Day	Subject/Person	Subject/Person
Monday	English/A	Geography/C
Tuesday	Economics/?	Psychology/D
Wednesday	Sociology/B	
Thursday	Hindi/?	
Friday	History/E	

37. (1) C teaches Geography.

38. (3) History is taught on Friday.

39. (4) Either A, B, C or E teaches Economics.

40. (5) Hindi is taught on Thursday.

$\textcircled{A} \Rightarrow >$	$\textcircled{S} \Rightarrow =$
$\textcircled{A} \Rightarrow <$	$\textcircled{S} \Rightarrow \leq$
$\textcircled{A} \Rightarrow \geq$	

41. (2) Statements

$M @ K, P \underline{\circ} K, K \$ T$

After conversion

$M > K, P \geq K, K = T$ or, $P \geq K = T < M$

Conclusions

I. $P \$ T \Rightarrow P = T$

May be or may not be true.

II. $M @ T \Rightarrow M > T$

Clearly M is greater than T.

42. (4) Statements

$R @ M, M \$ P, P \underline{\circ} T$

After conversion

$R > M, M = P, P \geq T$

or, $R > M = P \geq T$

Conclusions

I. $R @ T \Rightarrow R < T$

R is greater than T and not smaller than T.

II. $R \$ T \Rightarrow R = T$

R is greater than T.

43. (4) Statements

$T @ N, R @ N, R \underline{\circ} K$

After conversion

$T \leq N, R > N, R \geq K$

or, $T \leq N < R \geq K$

Conclusions

I. $N @ K \Rightarrow N > K$: Not True

II. $T @ K \Rightarrow T \leq K$: Not True

44. (2) Statements

M @ R, R \$ A, A © K

After conversion

M > R, R = A, A ≤ K

or, M > R = A ≤ K

Conclusions

I. K @ M ⇒ K > M : Not True

II. K © R ⇒ K ≥ R : True

45. (4) Statements

P © M; M @ K, K \$ T

After conversion

P ≤ M; M > K, K = T

or, P ≤ M > K = T

Conclusions

I. P \$ M ⇒ P = M

May be or may not be true.

II. T @ P ⇒ T > P : Not True

46. (1) Statements

M @ R, R @ K, K © N

After conversion

M > R, R < K, K ≤ N

or, M > R < K ≤ N

Conclusions

I. N @ R ⇒ N > R : True

II. N @ M ⇒ N > M : Not True

(47-54): The given information can be analysed as follows:

Candidate	CRITERIA				
	(A) or (I)	(B)	(C) or (II)	(D)	
Kamini	✓	-	✓	✓	- NG
Aditi	✗	✗	✓	-	✓ ✓
Vijay	✓	-	✓	✓	- ✓
Pradeep	-	✓	✓	✓	- ✓
Praveen	✓	-	✓	✓	- ✓
Priya	✓	-	✓	-	✓ ✓
Nirmala	✓	-	✓	✓	- ✓
Anees	NG	-	✓	✓	- ✓

NG = Not Given

- 47. (5)** In case of Kamini Gadgil no information is given regarding the criterion (D).
- 48. (2)** Aditi Sahay does not satisfy criterion (A) or (I)
- 49. (2)** Vijay Kulkarni is not a postgraduate.
- 50. (3)** Pradeep Sarkar satisfies criteria (I), (B); (C) and (D). Therefore, his case should be referred to Director, Personnel for consideration.
- 51. (1)** Praveen Chopra satisfies all the criteria.

52. (4) Priya Karkhanis satisfies criteria (A), (B), (II) and (D). Therefore her case should be referred to Managing Director for consideration.

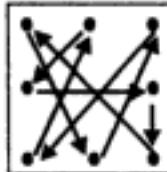
53. (1) Nirmala Pandey satisfies all the criteria.

54. (5) In case of Anees Ahmad no information is given regarding the criterion (A) or (I)

55. (4) From second figure to first figure in the first unit of Problem Figures the upper left and the lower right arrows rotate through 135° anticlockwise, the upper right arrow rotates through 90° anticlockwise and the lower left arrow rotates through 135° clockwise.

56. (2) From second figure to first figure in the first unit of Problem Figures the left design forms the water image while the right design forms the mirror image.

57. (5) From second figure to first figure in the first unit of Problem Figures following changes occur :



58. (3) From second figure to first figure in the first unit of the Problem Figures the shaded part of upper left and lower left and right squares move one step clockwise while the shaded part of upper right square moves one step anticlockwise.

59. (5) From second figure to first figure in the first unit of the Problem Figures the white and black leaflets rotate through 135° anticlockwise while the half leaflet rotates through 135° clockwise.

60. (2) Only course of action II seems to be appropriate. In case of severe drought food, water and fodder become scarce and in such a situation these items should be sent immediately to the affected areas to save the people and cattle. At a glance, the course of action I too seems to be suitable for pursuing. But the use of term "immediately" makes it invalid.

61. (5) Both courses of action are suitable for pursuing. Do not get confused by the use of the term "all" in the first course of action. Since, murder of a large number of people is not a usual event. Therefore, course of action I is also suitable.

62. (2) Only course of action II is suitable for pursuing. Since capsuled Vitamin E has not any deleterious effect on human body, it is not proper to ban the sale of capsuled Vitamin E.
63. (2) Only course of action II is suitable for pursuing. The first course of action may aggravate the situation further. Therefore, it is not suitable for pursuing.
64. (1) Only course of action I seems to be appropriate for pursuing. It is not desirable to achieve something by undue means.
65. (5) Both the courses of action are suitable for pursuing considering the visit of a large number of people.
66. (2) In each subsequent figure the left design interchange position so as the right design and for the two figures one of the left designs is replaced by a new design and then for the next two figures, one of the right designs is replaced by a new design.
67. (4) In each subsequent figure the entire design rotates through 45° anticlockwise and alternately half and one leaflet is added in front of the behind the pre-existing designs.
68. (5) In each subsequent figure five line segments are added to complete the square(s) in anticlockwise direction.
69. (1) In each subsequent figure one more square gets half shaded in anticlockwise direction and shading is done first to the right side of square then to the left side of square and the pre-existing shade moves one step in anticlockwise direction within the square and so as to one square to another.
70. (3) From Problem Figure (1) to (2) all the designs move two steps in anticlockwise direction, then the first two designs interchange positions and a new design is introduced behind the pre-existing designs. From Problem Figure (2) to (3) all the designs move $2\frac{1}{2}$ steps in anticlockwise direction and the first and the third designs interchange positions and a new design is introduced behind the pre-existing designs. From Problem Figure (3) to (4) all the designs move three steps in anticlockwise direction and the first and the fourth designs interchange positions so as the second and the third designs while the last design

remains as it is and a new design is introduced behind the pre-existing designs. From Problem Figure (4) to (5) all the designs move $3\frac{1}{2}$ steps in anticlockwise direction and the first and the fifth designs interchange places so as the second and the fourth designs and a new design is introduced behind the pre-existing designs. From Problem Figure (5) to Answer Figure all the designs would move 4 steps in anticlockwise direction, the first and the sixth designs would interchange places so as the second and the fifth designs and the third and the fourth designs would interchange positions and a new design would be introduced behind the pre-existing designs.

71. (1) From first figure to second figure the first and the third arcs from the top rotate through 90° clockwise while the second and the fourth arcs rotate through 90° anticlockwise and the plane of designs rotates through 45° anticlockwise.
72. (2) From the first figure to second figure the entire design rotates through 180° and the shaded part of one leaflet moves to the other side.
73. (3) From first figure to second figure the cross sign (\times) moves $\frac{1}{2}$ step in anticlockwise direction, the circle (O) and the square (□) move $1\frac{1}{2}$ steps in clockwise direction while the equal sign (=) moves $1\frac{1}{2}$ steps in anticlockwise direction.
74. (4) From first figure to second figure the horizontal line segment rotates through 135° anticlockwise and one of the attached designs is replaced by a new design. The vertical line segment rotates through 180° , the attached design which goes to bottom is inverted while the other design is replaced by a new design. In figure (4) the triangle has been inverted from first figure to second figure.
75. (5) From first figure to second figure the line segment rotates through 90° clockwise while the other design rotates through 90° anticlockwise, the arc is reversed at its place, while the triangle moves to the other side of line segment and also the shaded part moves to the opposite side.



**PROBATIONARY OFFICERS' (B.S.R.B., BOMBAY) EXAM.
HELD IN NOVEMBER, 1993**

GENERAL AWARENESS

1. The Third National Games were held in the cities of
 - a) Guwahati & Calcutta
 - b) New Delhi & Bombay
 - c) Bangalore & Mysore
 - d) Pune & Bombay
 - e) Calcutta & New Delhi
2. Which of the following countries recently expressed 'remorse' for its militarism and aggression to its neighbouring countries during the World War - II?
 - a) Italy b) Germany
 - c) Russia d) Japan
 - e) None of these
3. Which of the following may cause an earthquake?
 - a) An explosion in a nuclear reactor
 - b) Heavy rainfall
 - c) Severe Drought
 - d) Coming into activity of some dormant Volcanoes
 - e) All of them may cause earthquakes
4. Prof. John Galtung, who was honoured recently for promoting Gandhian values, is a citizen of
 - a) South Africa b) France
 - c) Canada d) Britain
 - e) Australia
5. Which of the following famous financial journal of international repute confers 'The Finance Minister of the Year' award?
 - a) Euromoney b) Dalal Street
 - c) Money Matters d) Business Standard
 - e) None of these
6. Which of the following awards was conferred upon Smt. Aruna Asaf Ali for her role in the welfare of adult women?
 - a) Tagore Literary Award
 - b) Kalinga Prize
 - c) UNESCO Literacy Award
 - d) Jamna Lal Bajaj Award for constructive work
 - e) Moorthi Devi Award
7. Who is the present Chief of the Naval Staff?
 - a) B.C. Joshi b) L. Ramdas
 - c) S.K. Mehra d) V.S. Shekhawat
 - e) None of the above
8. How many jobs in terms of percentage are reserved for the OBC's after the Central Govt. has decided to implement the recommendations of the Mandal Commission?
 - a) 27 % b) 25 %
 - c) 71/2 % d) 15 %
 - e) 22 %
9. Why were Jericho and Gaza Strip in the news recently?
 - a) U.S.A has opened its new defence base there to keep a watch on the West Asian countries
 - b) PLO has taken over these areas after a fierce battle with Israel
 - c) Lebanon and Syria have jointly attacked on Israel and a battle is going on in these two places
 - d) Jordan and Israel have agreed to keep these strips as 'No man's Land'
 - e) None of these
10. Dr. V. Kurien has distinguished himself in the areas of :

- a) Poultry farms b) Dairy development
c) Atomic Energy d) Economic reforms
e) Labour movements
11. In which of the following areas has Late Sri Hitendra Desai distinguished himself ?
a) Politics b) Sports
c) Journalism d) Science and Technology
e) Medicinal Science
12. 'Rosh Hashana' is the new year's day of :
a) Zorastrians b) Jews
c) Muslims d) Shintos
e) Both (c) & (d)
13. Which of the following vitamins helps in normal clotting of blood?
a) A b) B
c) E d) K
e) P
14. Which one of the following minerals stands first in terms of the value (in Rupees) of its annual production in India?
a) Diamonds b) Copper ore
c) Iron ore d) Gold
e) Mica
15. Which of the following is NOT a cash crop?
a) Jute b) Groundnut
c) Jowar d) Sugarcane
e) All are cash crops
16. 'Operation Blackboard' is a scheme launched to promote
a) primary education in Urban slums
b) basic education in rural areas
c) women's employment among the rural poor
d) higher education for girls in rural areas
e) none of these
17. Mr. K.V.Raghunatha Reddy is the Governor of
a) Assam b) Uttar Pradesh
c) Orissa d) West Bengal
e) None of these
18. 'The International Literacy Day' is observed on
a) 22nd September
b) 8th September
c) 14th September
d) 28th November
e) 2nd May
19. Which of the following states gets the benefit of Idukki's Power Project?
a) Kerala
b) Orissa
c) Jammu and Kashmir
d) Tamil Nadu
e) None of these
20. The place where bankers meet and settle their mutual claims and accounts is known as
a) Treasury
b) Clearing House
c) Collection Centre
d) Dumping Ground
e) Stock Exchange
21. 'Kanchipuram' is in the state of :
a) Orissa
b) Kerala
c) Andhra Pradesh
d) Tamil Nadu
e) Karnataka
22. What is the approximate contribution of agricultural commodities to the Gross Domestic Products of India?
a) 50% b) 30%
c) 42% d) 70%
e) 85%
23. A huge deposit of the precious stone Emerald was discovered recently in :
a) Punjab b) Orissa
c) Maharashtra d) Tamil Nadu
e) None of these
24. Senior National Hockey Championship tournaments are scheduled to be held in :

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46. What was the estimated production (in million tonnes) of food grains in Rabi season of 1993-94?
- a) 78 b) 82.5
c) 100 d) 115.5
e) 125
47. Who amongst the following is the recipient of the first 'Rajiv Gandhi National Sadbhavana Award'?
- a) Sri Baba Amte
b) Pt. Ravi Shankar
c) Mother Teresa
d) Chancellor Helmut Kohl
e) None of the above
48. Which of the following schemes have been launched for women by the Central Government recently?
- 1) Mahila Samridhi Yojna
2) Rashtriya Mahila Kosh
a) only 1 b) only 2
c) either 1 or 2 d) neither 1 nor 2
e) both 1 and 2
49. Which of the following is the world's largest programme launched for children and nursing mothers?
- a) IRDP b) NDC
c) CBFC d) CLRC
e) ICDS
- 50) The 60th birthday of which of the following playback singers was celebrated recently?
- a) Lata Mangeshkar
b) Asha Bhonsle
c) Manna Dey
d) Talat Mehmood
e) None of the above

PROBATIONARY OFFICERS' (B.S.R.B., BOMBAY) EXAM. HELD IN NOVEMBER, 1993

ENGLISH

Directions (Qs. 1-5) : Which of the Phrases (a), (b), (c) and (d) given below each sentence should replace the phrase underlined to make the sentence grammatically correct? If the sentence is correct as it is, mark (e) as the answer.

1. **They continued to work in the field despite of the heavy rains.**
 - a) even though there is heavy rain
 - b) although heavily rains
 - c) inspite of the heaily rains
 - d) even though it rained heavily
 - e) no correction required

2. **They felt humiliated because they realised that they had cheated.**
 - a) have been cheated
 - b) had been cheated
 - c) had been cheating
 - d) were to be cheated
 - e) no correction required

3. **Because of his mastery in this field, his suggestions are wide accepted.**
 - a) are widely accepted
 - b) are wide acceptance
 - c) have widely accepted
 - d) have been wide accepted
 - e) no correction required

4. **Had you been told me about your problem, I would have helped you.**
 - a) If you would have told
 - b) Had your have told
 - c) Had you told
 - d) If you have told
 - e) No correction required

5. **He found the gold coin as he cleans the floor.**
 - a) as he had cleaned
 - b) while he cleans
 - c) which he is cleaning
 - d) while cleaning
 - e) no correction required

Directions (Qs. 6 - 15) : In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate words.

Countries which do not have a very well developed machine tool industry can never (6) to be even a first grade (7) and economic power, much less a global industrial player. This is known from the (8) of countries like Germany, USA, Japan, Switzerland and so on. When, at the end of the Second world war, Japan wanted to become an industrial power, the (9) step she took was to (10) a machine tool industry. She decided to be (11) and not to depend on (12) industrial nations. This was (13) in the long term rather than going in for (14) advantage of import of machine tools. Similarly, India also established a machine tool industry (15) after independence to foster its fledgling industries.

- | | | | |
|---------------------------------------|---------------------------|---|---------------------------------|
| 6. a) aspire
c) agree
e) pursue | b) manifest
d) prosper | 7. a) political
c) military
e) rich | b) industrial
d) progressive |
|---------------------------------------|---------------------------|---|---------------------------------|

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The railways have, over the last few months continued to experience a shortfall of Rs. 85 crore per month, a feature that could add to their woes if it continues. Fall in expected goods traffic, in the rate per tonne and also a dip in the passenger traffic have contributed to the shortfall. All this may not be new concerns for the railways; the relevant point, however, is how the system and the government hope to tackle it.

Clearly, budgetary support should be considered only in the last instance, after various measures to both reduce expenditure and raise resources have been tried out. Consider subsidies on passenger traffic-the expenditure which really digs into the government's coffers. In fact, passenger traffic subsidy accounted for nearly 90% of the railways losses in 1992-93 with freight traffic subsidies taking up the rest.

Freight traffic subsidy cuts should prove more easy if this year's budget exercise is any indication. Till now, sixteen commodities were subsidised. In 1993-94 budget, subsidy on four were removed. Prices did not rise, there was little protest and now the railways ought to be emboldened to do more. Reduction in the passenger subsidies is more tricky given the dependence of such a large population, mostly poor, on the system and most governments have been reluctant to do much. In fact, passenger rates have been hiked very few times and that too only in recent years.

One area where the railways could do a lot more pruning is in shutting uneconomic branch lines. For instances, in 1992-93 it was found that 114 branch lines contributed a loss of Rs. 121 crores.

To its credit, however, the railways have been looking around for sources of funds other than the budget

21. Which of the following is FALSE regarding the railway operation?
 - a) Reduction in goods traffic is not a new phenomenon
 - b) Passenger traffic has shown increase in recent years
 - c) Rates per tonne of goods carried has come down
 - d) Railways are aware of the problem of reduction in income
 - e) None of these

d) This is the largest shortfall ever to happen
e) None of these
22. Which of the following is CORRECT regarding the shortfall in the railways resource generation?
 - a) It was higher than earlier years
 - b) It is happening for the first time
 - c) It was anticipated by most people
23. Which of the following has the SAME meaning as the word dip as it has been used in the passage?
 - a) drift
 - b) slowness
 - c) plunge
 - d) reduction
 - e) tardiness
24. What does the author suggest that the railways should do as regards freight subsidy?
 - a) It should introduce subsidy for more items
 - b) It should be very courageous
 - c) It should remove or reduce subsidies of more items
 - d) Author's views are not explicit
 - e) None of these

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PROBATIONARY OFFICERS' (B.S.R.B., BARODA) EXAM.

HELD IN NOVEMBER, 1993

QUANTITATIVE APTITUDE

Directions (Qs. 1-5) : Study the following information carefully and then answer questions based on this information.

Amrit, Beena, Raj, Deep, Romy and Sonu were playing a game. Amrit's father, mother and uncle were in the group. The group has only two females. Beena, the mother of Amrit got more points than Amrit's father. Deep got more points in the game than Romy but less than that of Sonu. Niece of Romy got the lowest points. Father of Amrit got more points than Sonu but could not win the game.

1. Who stood second in the game?

- a) Amrit b) Beena
- c) Raj d) Deep
- e) None of these

2. Who is Beena's husband?

- a) Sonu b) Romy
- c) Deep d) Raj
- e) None of the above

3. Who won the game?

- a) Amrit b) Beena
- c) Sonu d) Deep
- e) None of these

4. Who got the lowest points?

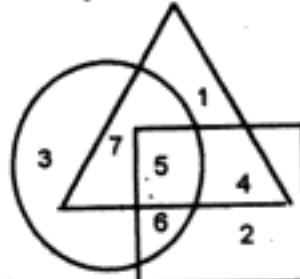
- a) Amrit b) Beena
- c) Sonu d) Deep
- e) None of the above

5. Who was the lady in the group besides Beena?

- a) Raj b) Deep
- c) Romy d) Amrit
- e) None of the above

Directions (Qs. 6-10) : Study the diagram given here carefully and answer questions based on this diagram.

- Nurses in Hospital
- Trained Nurses
- Married Population



6. Married nurses in hospital are represented by

- a) 5 b) 4
- c) 6 d) 7
- e) None of these

7. Married trained nurses are represented by

- a) 3,6 b) 7,5
- c) 5,6 d) 4,5
- e) None of these

8. Unmarried trained nurses in hospital are represented by

- a) 5 b) 4
- c) 6 d) 7
- e) None of these

9. What does number 7 represent ?

- a) Trained nurses
- b) Unmarried trained nurses
- c) Married nurses in hospital
- d) Unmarried nurses in hospital
- e) None of these

- 10.** If the hospital administration were to pick up only married trained nurses in hospital for operation theatre, which segment will be picked up in the diagram?

a) 6 b) 5
c) 7 d) 4
e) None of these

Directions (Qs. 11-15) : Each of the questions is followed by two arguments numbered I and II. You are to decide which of the arguments is 'Forceful' and which is not. Mark one of the answers as per the scheme given below :

- a) If only I is forceful.
b) If only II is forceful.
c) If both I and II are forceful.
d) Neither I nor II is forceful.
e) Data inadequate.

- 11.** Should 'Education for all' be abandoned?

I. Yes, because we don't have resources for the same.

II. No, because this will lead to an uneducated India.

- (a) (b) (c) (d) (e)

- 12.** Is the pen mightier than the sword?

I. Yes, because writers influence the thinking of the people.

II. No, because with the help of physical force one can conquer all.

- (a) (b) (c) (d) (e)

- 13.** Should India manufacture Nuclear Weapons?

I. Yes, because Pakistan is posing a serious threat to India.

II. No, because manufacturing Nuclear weapons would upset our economy

- (a) (b) (c) (d) (e)

- 14.** Should strikes be banned in hospitals?

I. Yes, because hospital services get disrupted causing danger to lives.

II. No, because it is a democratic right of the people.

- (a) (b) (c) (d) (e)

- 15.** Should people be allowed to beg?

I. Yes, it is a fundamental right to be involved in profession of one's choice.

II. No, because begging lowers the self-esteem of a person.

- (a) (b) (c) (d) (e)

- 16.** White Collar sells a shirt for an amount. Due to off-season sale, White Collar started offering a discount of 20% on the tag price. Come Diwali, White Collar offered a further discount of 10% on the reduced price. If I get the shirt for Rs.108, what was the original tag price?

- a) Rs.180 b) Rs.160
c) Rs.145 d) Rs.200
e) None of these

- 17.** A cylindrical grain cellar full of wheat with its door on the top needs to be painted on its outside curved surface. The cellar has a diameter of 10 metres and it is 14 metres high. The cost of painting a square metre of the curved surface is Rs.15. What will be the total cost of painting the curved surface of the cylindrical cellar?

- a) Rs.4400 b) Rs.5500
c) Rs.6600 d) Rs.6500
e) None of these

- 18.** A contractor undertakes to complete a task in 9 days by deploying 12 men. Somehow 3 days after the job is started, 2 of these men leave and to keep his commitments he hires 10 women with the full knowledge that 5 women can do as much work as 4 men can. In how many days the remaining job will be finished?

- a) 3 days b) 4 days
c) 5 days d) 6 days
e) None of these

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Suresh's P.O (Q & A)

32. If $x * y = (x + 2)^2 (y - 2)$ then the value of $7 * 5$ is :
- 175
 - 205
 - 213
 - 246
 - 243
33. A no. when divided by 119 leaves the remainder of 19. If it is divided by 17, it will leave the remainder equal to :
- 19
 - 10
 - 7
 - 12
 - 2
34. How many numbers between 200 and 600 are divisible by 4,5 and 6?
- 5
 - 6
 - 7
 - 8
 - None of these
35. If 75% of a number is added to 75, the result is the number itself, then the number is :
- 400
 - 300
 - 60
 - 50
 - None of these
36. The value of $\overline{0.57}$ is :
- $\frac{57}{10}$
 - $\frac{57}{99}$
 - $\frac{26}{45}$
 - $\frac{52}{9}$
 - None of these
37. If x and y are the two digits of the number 653 xy such that the number is divisible by 80, then $x + y$ is equal to :
- 2
 - 3
 - 4
 - 6
 - 10
38. A tin of oil was $\frac{4}{5}$ full. Six bottles of oil were taken out and four bottles of oil were poured into it, it was $\frac{3}{4}$ full. How many bottles of oil can the tin contain?
- 10
 - 20
 - 30
 - 40
 - 60
39. If the side of a square is increased by 25% then its area is increased by :
- 25%
 - 55%
 - 40.5%
 - 56.25%
 - None of these
40. For which value of x , the expression $11.98 \times 11.98 + 11.98 \times x + 0.02 \times 0.02$ will be a perfect square?
- 0.02
 - 0.2
 - 0.04
 - 0.4
 - None of these
41. If $\log 27 = 1.431$, then the value of $\log 9$ is :
- 0.934
 - 0.945
 - 0.954
 - 0.958
 - None of these
42. The H.C.F. of three numbers is 12. If they are in the ratio 1:2:3, the numbers are :
- 12,24,36
 - 10,20,30
 - 6,12,18
 - 24,48,72
 - None of these
43. If $\frac{x}{y} = \frac{3}{4}$, the value $\frac{6}{7} + \frac{y-x}{y+x}$ is :
- $1\frac{1}{7}$
 - $\frac{5}{7}$
 - 1
 - 2
 - 3
44. If A's height is 10% more than B's, how much per cent less is B's height than that of A's?

- a) 10% b) $10\frac{1}{9}\%$
 c) $10\frac{1}{11}\%$ d) $9\frac{1}{11}\%$
 e) None of these.
45. In an examination 1100 boys and 900 girls appeared. 50% of the boys and 40% of the girls passed the examination. The percentage of candidates who failed is :
 a) 49.0 b) 49.5
 c) 54.5 d) 59.5
 e) 57.5
46. The H.C.F. of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, the other is :
 a) 279 b) 283
 c) 308 d) 318
 e) 212
47. The value of : $3.75 \times 3.75 - 2 \times 3.75 \times 2.75 + 2.75 \times 2.75$ is equal to :
 a) 1.00 b) 1.75
 c) 4.75 d) 6.50
 e) 3.50
48. If m and n are whole numbers such that $m \times n = 121$, the value of $(m - 1)(n + 1)$ is equal to :
 a) 1 b) 10
 c) 120 d) 1000
 e) None of these
49. Which one of the following numbers has a rational square root?
 0.4, 0.9, 0.09, 0.025
 a) 0.4 b) 0.9
 c) 0.09 d) 0.025
 e) None of these
50. If 76 is divided into four parts proportional to 7, 5, 3 and 4, the smallest part is :
 a) 12 b) 15
 c) 16 d) 19
 e) 7

**PROBATIONARY OFFICERS' (B.S.R.B., DELHI) EXAM.
HELD IN AUGUST, 1993**

TEST OF REASONING

Directions (Qs. 1-10) : What should come in place of the question mark (?) in the following questions?

1. $7.69 - (8.72 - 6.34) = ?$
 - a) 5.31
 - b) 2.63
 - c) 20.07
 - d) 15.21
 - e) None of these

2. $226 \times 48 + 52 = ?$
 - a) 10700
 - b) 22600
 - c) 10900
 - d) 10860
 - e) None of these

3. $14.578 + 5.4 + 6.28 = ?$
 - a) 26.06
 - b) 25.61
 - c) 15.898
 - d) 26.158
 - e) None of these

4. $512 + 442 + 648 = ?$
 - a) 1612
 - b) 1502
 - c) 1592
 - d) 1602
 - e) None of these

5. $\frac{22220}{?} = 220$
 - a) 10000
 - b) 101
 - c) 100
 - d) 10201
 - e) None of these

6. $15 \times 0.9 \times 7.2 = ?$
 - a) 121.5
 - b) 97.2
 - c) 92.5
 - d) 94.95
 - e) None of these

7. $\frac{3}{4} + \frac{3}{5} \times \frac{5}{6} = ?$
 - a) $\frac{1}{2}$
 - b) $\frac{9}{8}$
 - c) $\frac{5}{9}$
 - d) $\frac{2}{3}$
 - e) None of these

8. $472.5 + 1944 \div 54 = ?$
 - a) 508.5
 - b) 44 + 75
 - c) 1952.75
 - d) 408.5
 - e) None of these

9. $225 \times 30 \div 10 = ?$
 - a) 67500
 - b) 67.5
 - c) 675
 - d) 665
 - e) None of these

10. 45 % of 900 = ?
 - a) 445
 - b) 405
 - c) 450
 - d) 200
 - e) None of these

Directions (Qs. 11-18) : Each of the questions below consists of a question and two statements numbered I & II given below it. You have to decide whether data provided in the statements are sufficient to answer the question. Read both the statements and give the answer –

- a) If the data in the statement I alone are sufficient to answer the question, while in the statement data II alone are not sufficient to answer the question.

- b) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.

- c) If the data in statement I alone or in statement II alone are sufficient to answer the question.

- d) If the data even in both statements I and II together are not sufficient to answer the question.

- e) If the data in both statements I and II together are necessary to answer the question.
- 11. How is Rama related to Kaushik?**
- (I) Tapan's wife Prema is paternal aunt of Kaushik.
 - (II) Rama is the brother of a friend of Prema.
- 12. At what time did the accident take place in the Kandhar station?**
- (I) The accident took place the moment the local train scheduled to reach at 9.05 am and running late by 10 minutes entered the station.
 - (II) The reservation window was closed because of the accident.
- 13. In the last month the company decided to increase the cost of its mixer by 10 per cent. What is the present price of the mixer?**
- (I) The cost of mixer and juicer together was Rs. 2,850/- a month ago.
 - (II) The amount of 10% increase on the mixer comes to Rs. 220/-.
- 14. Total money with Narasinh and Anil Kumar is 28 percent of Uday Kumar. How much money is Anil Kumar having?**
- (I) Uday Kumar has got Rs. 75,000/-.
 - (II) The ratio of money of Narasinh to that of Anil Kumar is 1 : 3.
- 15. A ground plus four storeyed residential building has 3 wings namely A, B and C. How many flats are there in the building?**
- (I) Each floor has equal number of flats.
 - (II) All the 3 flats on the ground floor of wing A are unoccupied.
- 16. The Chairman of a big company visits one department on Monday of every week except for the Monday of third week of every month. When did he visit the purchase department?**
- (I) He visited accounts department in the second week of September after having visited purchase department on the earlier occasion.
 - (II) He had visited purchase department immediately after visiting stores department but before visiting accounts department.
- 17. There were 54 members of a co-operative society. How many members attended the recent Annual General Meeting (A.G.M.)?**
- (I) Normally two-third members attend the meeting.
 - (II) One sixth of the members were out of the town on the A.G.M.'s day.
- 18. At what time did Ujjwala come to know about the news of the prize she had won?**
- (I) Her brother had telephoned her around 8 p.m. but she was not at home.
 - (II) Her neighbour arranged a party 2 hours after Ujjwala came to know about the news.
- 19. How many pairs of letters are there in the word 'CLANGOUR' which have as many letters between them in the word as in the alphabet?**
- a) Four
 - b) Three
 - c) Two
 - d) One
 - e) None of these
- 20. If Neha says, "Amruta's father Raj is the only son of my father-in-law Mahesh, then how Bindu, who is sister of Amruta is related to Mahesh"? (counting from both directions)**
- a) Daughter
 - b) Wife
 - c) Daughter-in-law
 - d) Niece
 - e) None of these
- Directions (Qs.21-25) :** In each of the following questions an equation is presented in 4 parts with the '=' sign in between parts. The four parts of the equation are numbered (A),(B),(C) and (D). One of these parts in the question may be wrong and thereby may not yield the same result as the other three parts do. Find out the wrong part, if there is any. If all the four parts are correctly equated and all of them yield the same result the answer is (E), i.e. No error.

Suresh's P.O (Q & A)

21. $45\% \text{ of } 320 = (4 \times 3)^2 = (15)^2 - (9)^2 =$
 (a) (b) (c)

$21 \times 10 - 8 \times 7$, No error
 (d) (e)

22. $1150 \times 2.5 = 700 \times 4 + 15 \times 5 = 5600 + 2$
 (a) (b) (c)
 $+ 105 - 25 = \frac{2}{3} \times 1 \times 4350 - 5 \times 5$, No error
 (d) (e)

23. $\sqrt{2.21 - 0.25} = 322/230 = 1.01 + .2$
 (a) (b) (c)
 $+ 0.19 = 103.16 + 200.8 - 302.56$
 (d)

No error
 (e)

24. $86 - 52 + 20 = 20 \times 4 + 1.7 \times 0.2 =$
 (a) (b)
 $\sqrt{10000} - 16.6 = 2210/26 - 1.6$, No error.
 (c) (d) (e)

25. $69 \times 140 = 23 \times 3 \times 15 + 125 = 69 \times 5 \times 3 +$
 (a) (b) (c)
 $100 + 25 = 115 \times 9 + \frac{500}{4}$ No error
 (d) (e)

Directions (Qs.26-28) : Study the following letter-number sequence and answer the questions given below :

N P D F A I G L O 4 K W C R
 M 9 X U Q E J 7 H S T Y 6

26. If every alternate position is dropped in the above sequence starting from 'D' (D is dropped), which of the following will be second to the left of seventh position from your left?
 a) L b) 4
 c) R d) 9
 e) None of these

27. Which of the following will be fourth to the right of the sixteenth position from the right end?

a) X b) 9
 c) M d) L
 e) None of these

28. If every fourth position starting from F is replaced by successive days of week starting with Sunday (F becomes Sunday), what will be the position of Thursday counting from right?

a) Nineteenth b) Sixteenth
 c) Eighth d) Ninth
 e) None of these

Directions (Qs.29-35) : Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Give Answer –

- (a) If the inference is "Definitely True" i.e., properly follows from the statement of facts given.
- (b) If the inference is "Probably True" though not "Definitely True" in the light of the facts given.
- (c) If the "data are inadequate" i.e., from the facts given you cannot say whether the inference is likely to be true or false.
- (d) If the inference is "Probably False" though not "definitely false" in the light of the facts given.
- (e) If the inference is "definitely False" i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

In the late 1980s, Government of India set an ambitious target to produce at least 10,000 MW of electricity from nuclear reactors by the end of this century. The present installed capacity at four nuclear power centres is a mere 1,840 MW. The target of 10,000 is nowhere in sight at the present

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1993

ANSWERS

General Awareness

(Answers are given below with reference to the year 1993).

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. d | 2. d | 3. d | 4. b | 5. d | 6. d | 7. d | 8. a |
| 9. e | 10. b | 11. a | 12. b | 13. d | 14. c | 15. c | 16. b |
| 17. d | 18. b | 19. a | 20. b | 21. d | 22. b | 23. e | 24. e |
| 25. a | 26. a | 27. e | 28. c | 29. a | 30. b | 31. c | 32. b |
| 33. c | 34. a | 35. c | 36. e | 37. a | 38. c | 39. d | 40. e |
| 41. e | 42. e | 43. a | 44. e | 45. a | 46. b | 47. d | 48. e |
| 49. e | 50. b | | | | | | |

English

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. d | 2. b | 3. a | 4. c | 5. d | 6. a | 7. b | 8. d |
| 9. e | 10. e | 11. c | 12. b | 13. d | 14. a | 15. c | 16. e |
| 17. b | 18. a | 19. c | 20. d | 21. b | 22. c | 23. d | 24. c |
| 25. c | 26. b | 27. d | 28. b | 29. e | 30. a | 31. a | 32. e |
| 33. d | 34. e | 35. e | 36. b | 37. d | 38. e | 39. a | 40. c |
| 41. d | 42. b | 43. b | 44. d | 45. e | 46. e | 47. b | 48. c |
| 49. e | 50. c | | | | | | |

Quantitative Aptitude

- | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|
| 1. c | 2. d | 3. b | 4. e | 5. e | 6. d | 7. c | 8. b |
| 9. c | 10. b | 11. b | 12. d | 13. b | 14. c | 15. b | 16. e |

Suresh's P.O (Q & A)

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 17. c | 18. b | 19. c | 20. b | 21. a | 22. d | 23. c | 24. d |
| 25. d | 26. b | 27. a | 28. b | 29. c | 30. a | 31. a | 32. e |
| 33. e | 34. b | 35. b | 36. b | 37. d | 38. d | 39. d | 40. c |
| 41. c | 42. a | 43. c | 44. d | 45. c | 46. c | 47. a | 48. c |
| 49. c | 50. a | | | | | | |

Test of Reasoning

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. a | 2. c | 3. e | 4. d | 5. b | 6. b | 7. e | 8. a |
| 9. c | 10. b | 11. d | 12. a | 13. e | 14. e | 15. d | 16. a |
| 17. d | 18. d | 19. a | 20. c | 21. d | 22. c | 23. e | 24. b |
| 25. a | 26. a | 27. b | 28. c | 29. c | 30. c | 31. c | 32. a |
| 33. b | 34. c | 35. e | 36. e | 37. e | 38. a | 39. a | 40. b |
| 41. b | 42. d | 43. a | 44. d | 45. b | 46. a | 47. e | 48. c |
| 49. c | 50. d | | | | | | |

EXPLANATORY NOTES (1993)

English

- 41. (d)** Not : says but: **had said**. The first part of the sentence is in the past tense; hence this too should be in the past. In the sequence of actions, first one is **saying** and the next one is **losing track**. As the first action has been introduced after the second one, the first one should get the past perfect tense.
- 42. (b)** Correct form of the verb is **came** or **have come**. Developmental activities have ended. Therefore we must use either past tense or present perfect. We can use present perfect because there is no direct time reference to the past. If there is a past time marker such as **last year** or **in the last month itself** we must use the past tense and not the present perfect.
- 43. (b)** Say **have**.
- Had use suggests that English is no longer a medium of instruction.
- 44. (d)** Say the **stipulated time or dead line**
As both of them mean the same, to use them both is redundant.
- 47. (b)** Bad is an adjective. Here there must be an adverb to modify the verb **is raining**. So we must say **badly**; better **heavily**
- 48. (c)** The Cooker is not **steam** It is full of steam. Therefore say: **full of steam**
- 49.(e)** The sentence is grammatically right, though **by** in (c) is unnecessary. You can as well say: **talking about it loudly etc.**
- 50. (c)** Here there is an error in the tense. When the time reference in other parts is past, the verb **wishes** also must be in the past so say: **wished**

Quantitative Aptitude

- 16. (e)** Let the new price be Rs. 100

Ist discount = 20%

Now the price : Rs. 80.

II discount = 10%

$$= \frac{80 \times 10}{100} = \text{Rs. } 8$$

Now the Sale price = $80 - 8 = \text{Rs. } 72$.

If the sale price is 108, the marked price was :

$$\frac{108 \times 100}{72} = \text{Rs. } 150$$

- 17. (c)** $r = 5 \text{ m}$, $h = 14$

Curved Surface area = $2\pi rh$

$$= 2 \times \frac{22}{7} \times 5 \times 14 = 440 \text{ m}^2$$

Cost of painting @ Rs. $15/\text{m}^2 = 440 \times 15 = \text{Rs. } 6600$.

- 18. (b)** In 3 days $\frac{1}{3}$ work is over

5 women = 4 men

10 women = 8 men

Now no. of. men = $10 + 8 = 18$ men

Time remaining : $9 - 3 = 6$ days

Men	Work	days
-----	------	------

12	$\frac{1}{3}$	3
18	$\frac{2}{3}$?

$$3 \times \frac{12}{18} \times \frac{2}{3} \times \frac{3}{1} = 4 \text{ days}$$

19. (c) Let the cost of 1 CTV be Rs. 100.

No. of CTVs usually sold be 100

Usual Net Sales : $100 \times 100 = \text{Rs. } 10000$

New price of 1 CTV after 15% increase
= Rs. 115

No. of TVs sold : $100 - 15 = 85$

Net sales now = $115 \times 85 = \text{Rs. } 9775$

∴ Reduction in Sales = $10000 - 9775$
= Rs. 225

$$= \frac{225}{10000} \times 100 = 2.25\%$$

20. (b) For 6 yrs there were 2 member and the salary = Rs. 570.

For 1 completed year of service increase
100 Rs.per member

For 6 yrs and 2 members the increase :
 $2 \times 6 \times 100 = 1200$

$$\text{per month} = \frac{1200}{12} = 100$$

His monthly salary works to $570 + 100$
= Rs. 670

But he is drawing Rs. 720.

This is due to the birth of a son.

If for 6 yrs for 1 member = Rs. 100 per month

Rs. 50 per month must be for 3 years.

26. (b) In $\bar{2.75}$ and $\bar{3.78}$ as 2 and 3 alone are -ve.

Their sum = $\bar{4.53}$

$$27. (a) 2 + \sqrt{2} + \frac{1}{2+\sqrt{2}} + \frac{1}{\sqrt{2}-2}$$

$$= 2 + \sqrt{2} + \frac{1}{2+\sqrt{2}} - \frac{1}{2-\sqrt{2}}$$

$$= 2 + \sqrt{2} + \frac{2 - \sqrt{2} - (2 + \sqrt{2})}{(2 + \sqrt{2})(2 - \sqrt{2})}$$

$$= 2 + \sqrt{2} + \frac{-2\sqrt{2}}{2}$$

$$= 2 + \sqrt{2} - \sqrt{2} = 2$$

- 28 (b) 3 digit nos. are 100, 101, ...999.

Those that are divisible by 6 are

102, 108, ...996.

This is an AP

where $a = 102$, $c.d = 6$, $t_n = 996$

where $t_n = a + \overline{n-1} d$

$$996 = 102 + (n-1)6$$

$$(n-1)6 = 894$$

$$n-1 = 149$$

$$n = 150$$

- 29.(c) Product of two consecutive nos. is divisible by 2 because one of them is even.

One of the three consecutive nos. is divisible by 3

Hence the product of 3 - consecutive nos. is divisible by 6

4 consecutive nos. must contain 2 consecutive even nos. whose product is divisible by 8

Consider $2m$ & $(2m + 2)$

$$2m(2m + 2) = 4m^2 + 4m = 4m(m+1)$$

= 4 x product of 2 consecutive nos.

But the product of 2 consecutive nos. is divisible by 2. $\therefore 4m(m+1)$ is divisible by 8.

Hence the product of 4 consecutive nos. is divisible by 2,3,6 & 8 i.e., by 24

30. (a) 414, 426 are divisible by 3

Hence we have to choose between 419, 421.

421 leaves remainder 1 when divided by 3.

Hence the only choice is 419.

$$\frac{\sqrt{7} + \sqrt{5}}{\sqrt{7} - \sqrt{5}}$$

$$= \frac{(\sqrt{7} + \sqrt{5})(\sqrt{7} + \sqrt{5})}{(\sqrt{7} - \sqrt{5})(\sqrt{7} + \sqrt{5})}$$

$$= \frac{7+5+2\sqrt{35}}{2} = 6 + \sqrt{35}$$

$$32 (e) x * y = (x + 2)^2 (y - 2)$$

$$\therefore 7 * 5 = (7 + 2)^2 (5 - 2) = 243$$

33. (e) If it leaves a remainder of 19 when divided by 119, the no. is 138

When 138 is divided by 17, the remainder is 2.

34. (b) If a no. is to be divided by 4,5,6, it must be divided by their L.C.M which is 60.

Nos. between 200 & 600 which are divisible by 60 are

$$240, 300, \dots, 540$$

This is an A.P. where $a = 240$, C.d. = 60
 $t_n = 540$

$$t_n = a + (n-1)d$$

$$540 = 240 + (n-1)60$$

$$(n-1)60 = 300$$

$$n-1 = 5, n = 6.$$

\therefore No. of nos. = 6.

$$35. (b) 75 + \frac{75}{100} \times n = n$$

$$\frac{25}{100} n = 75$$

$$n = 300.$$

$$36. (b) 0.\overline{57} = .575757 \dots$$

$$\text{Let } x = .575757 \dots$$

$$100x = 57.575757 \dots$$

$$\therefore 99x = 57$$

$$x = \frac{57}{99}$$

Note : Write the period in the numerator and write as many 9s (as there are digits in the period) in the denominator and that will be your answer.

Here 2 digits in the period. \therefore 2 nines.

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10. Which of the following is the capital of Bulgaria?
- Sofia
 - Danube
 - Rio de Janerio
 - Belgrade
 - None of these
11. After how many years Mr. Yasser Arafat entered into Gaza strip ?
- 20
 - 30
 - 27
 - 17
 - None of these
12. The percentage of reservations in government jobs and educational institutions in Tamil Nadu as approved by the Government of India is :
- 65
 - 58
 - 54
 - 69
 - None of these
13. What was India's foreign currency reservation at the beginning of June 1994 in terms of U.S. Dollars ?
- 10 billion
 - 5 billion
 - 20 billion
 - 25 billion
 - 15 billion
14. Which of the following groups of newspapers has the combined largest circulation in India?
- The Times of India
 - Punjab Kesari
 - Ananda Bazar Patrika
 - Malayala Manorama
 - Indian Express
15. The Dr.Babasaheb Ambedkar Marathwada University is at
16. The Ozone layer protects us from
- Ultra violet radiations
 - Visible radiations
 - Cosmic rays
 - Infra-red rays
 - None of these
17. Out of the total gross bank credit of all the banks what is the total share of large, medium and small scale industries in India?
- 64.5%
 - 38.9%
 - 45.8%
 - 53.5%
 - 35.5%
18. Who among the following has been recently elected fellow of the Sahitya Akademi?
- Qurratin Haider
 - Harbhajan Singh
- Only (i)
 - Neither (i) nor (ii)
 - Only (ii)
 - Both (i) and (ii)
 - No person was elected as fellow this year
19. Which of the following games / sports are included in the Hiroshima Asian Games for the first time?
- Chess
 - Kho-Kho
 - Cricket
 - Kabbadi
 - None of these
20. Which of the following was one of the main objectives of Bharatiya Jnanpith award?
- To encourage translation of works of Indian authors in foreign languages
 - To depute Indian authors to foreign countries

- c) To arrange programmes of visiting foreign authors
 d) To encourage the creation of original contemporary literature
 e) Collecting and preserving documents of historical importance
- 21.** Sanghi World Chess Championship candidates matches were played in July '94 in the city of
 a) Calcutta
 b) Madras
 c) Bhubaneswar
 d) New Delhi
 e) Hyderabad
- 22.** The U.S. based 'Business Week' has ranked Reliance Industries (RIL) as the 45th largest emerging market company in the world with a market value of :
 a) US \$ 5.24 billion
 b) US \$ 3.18 billion
 c) US \$ 2.68 billion
 d) US \$ 6.28 billion
 e) None of these
- 23.** Mr. Hiteshwar Saikia was recently in news for the reason that :
 a) He was awarded Bharat Shiromoni for 1994
 b) He was appointed as India's ambassador to Saudi Arabia
 c) He was appointed as Chairman of Indian Council for Cultural Relations
 d) He resigned from the office of Chief Minister of Assam
 e) None of these
- 24.** Which of the following is true about Air India Charters Ltd. (AICL)?
 a) It is a wholly owned subsidiary of Air India
 b) It is the new name of Air India after it has been made a Public Limited Company
 c) It is the new national carrier
- d) It is the Administrative and Managing body for Air India
 e) None of these
- 25.** The United Nations Organisation has closed down its mission in Afghanistan in July this year in the city of :
 a) Hesat
 b) Kabul
 c) Baghlan
 d) Kandahar
 e) None of these
- 26.** Mr. Jean Bertrand Aristide was in news recently because
 a) He was elected as the President of Rwanda
 b) He was ousted by Military junta and went in exile
 c) He was appointed as U.S. permanent representative of U.N.O
 d) He was sent as a special mission of U.S. by President Bill Clinton to Bosnia-Herzegovina
 e) None of these
- 27.** Which of the following awards was recently conferred on Ms. Kiran Bedi?
 a) Saraswathi
 b) Magsaysay
 c) Golden Globe
 d) Rani Lakshmi
 e) President's Medal
- 28.** Which of the following States is the major beneficiary of the Sardar Sarovar Project?
 a) Maharashtra
 b) Gujarat
 c) Madhya Pradesh
 d) Rajasthan
 e) None of these
- 29.** For which of the following was the Tandon Committee appointed ?
 a) To work out the mechanics of the scope of privatisation and areas where it could be implemented in the telecom sector

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- 41. Who among the following is the Chairman of Central Board of Direct Taxes (CBDT)?**
- Shri.N.R. Sivaswamy
 - Shri.J.A. Shah
 - Shri.S.S. Nadkarni
 - Shri.T.S. Srinivasan
 - None of the above
- 42. Which of the following would be the longitudinal distance when there is a difference of one hour in Standard Time between two places?**
- 60°
 - 30°
 - 15°
 - 45°
 - 90°
- 43. Approximately how many million tonnes of wheat was stocked at the end of April 1994 in India?**
- 150
 - 100
 - 200
 - 250
 - None of these
- 44. Who among the following is the Chairman of the Securities and Exchange Board of India (SEBI) ?**
- Shri.G.V. Ramakrishna
 - Shri.T.S. Srinivasan
 - Shri.S.S. Nadkarni
 - Shri.S.A. Deve
 - None of the above
- 45. The Chakma refugees are taking shelter in**
- Myanmar
 - Rwanda
 - Uganda
 - Bosnia
 - None of these
- 46. The Nanjundappa Committee submitted its recommendations for the sector of :**
- Transport
 - River-water
 - Economic reform
 - Railway
 - Power
- 47. Pandit K.G. Ginde, who recently passed away, was well known for his contribution in**
- Music
 - Dance
 - Sanskrit
 - Literature
 - Ayurveda
- 48. Which of the following games/sports is Misha Grewal associated with**
- Swimming
 - Badminton
 - Squash
 - Chess
 - None of these
- 49. Silvio Berlusconi, who was in the news recently, is from :**
- Italy
 - U.S.A.
 - Bulgaria
 - Canada
 - None of these
- 50. As per the recent available reports, the per capita income of which of the following States is maximum?**
- Haryana
 - Punjab
 - Maharashtra
 - Uttar Pradesh
 - Gujarat

PROBATIONARY OFFICERS' (B.S.R.B., LUCKNOW) EXAM. HELD IN NOVEMBER, 1994

ENGLISH

Directions (Qs. 1-10) : In the following passage there are blanks, each of which has been numbered. These numbers are given below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

Decisions may be ... (1) ... at either through initiative or through inertia. Many misfortunes in the world come across the bridge of indecision. Power corrupts but weakness also corrupts. The fruits of weakness like fear, bitterness and suspicion can ... (2) ... in a paralysis of decision. Inner division can produce indecision, and indecision results by weakness of character.

An occasional wrong decision may be sometimes ... (3) ... to indecision. The ... (4) ... man is often self-centered. He fears making a ... (5) ... and the fear paralyses him. When indecision grips a nation, free men feel the need for an ... (6) ... ruler and they are prepared to ... (7) ... democracy overboard. In certain large democracies, the governments rule with a ... (8) ... majority. They often know what decisions would be beneficial in the long run, but they ... (9) ... to take them lest they be unpopular. Their ... (10) ... to carry the opposition and to rally people to a larger purpose, makes them ineffective rulers.

- | | |
|---|--|
| 1. a) Formulated
b) Deferred
c) Looked
d) Aimed
e) Arrived | 4. a) Indecisive
b) Selfish
c) Common
d) Trustworthy
e) Dishonest |
| 2. a) Exist
b) Result
c) Entangle
d) Drown
e) Indulge | 5. a) Presentation
b) Decision
c) Submission
d) Mistake
e) Query |
| 3. a) Susceptible
b) Acceptable
c) Preferable
d) Questionable
e) Useful | 6. a) Optimistic
b) Autocratic
c) Eccentric
d) Energetic
e) Indecisive |

- | | |
|---|--|
| <p>7. a) Throw
b) Accept
c) Regard
d) Sacrifice
e) Cultivate</p> <p>8. a) Winning
b) Vast
c) Slender
d) Substantial
e) Derisive</p> | <p>9. a) Fail
b) Prefer
c) Like
d) Decide
e) Hesitate</p> <p>10. a) Apathy
b) Skill
c) Desire
d) Inability
e) Indifference</p> |
|---|--|

Directions (Qs. 11-25) : Read the following passage to answer the given questions. Some words in the passage are given in bold to help you locate them while answering some of the questions.

Although cynics may like to see the government's policy for women in terms of the party's internal power struggles, it will nevertheless be churlish to deny that it represents a pioneering effort aimed at bringing about **sweeping** social reforms. In its language, scope and strategies, the policy document displays a degree of understanding of women's needs that is uncommon in government pronouncements. This is due in large part to the participatory process that marked its formulation, seeking the active involvement right from the start of women's groups, academic institutions and nongovernment organisations with grass root experience. The result is not just a **lofty** declaration of principles but a blueprint for a practical programme of action. The policy **delineates** a series of concrete measures to accord women a decision-making role in the political domain and greater control over their economic status. Of especially far reaching impact are the **devolution** of control of economic infrastructure of women, notably at the gram panchayat level and the amendments proposed in the Hindu Succession Act of 1956 to give women coparcenary rights.

An enlightened aspect of the policy is its recognition that actual change in the status of women cannot be brought about by the mere enactment of socially progressive legislation. Accordingly, it focuses on reorienting development programmes and sensitising administrations to address specific situations, as, for instance, the growing number of households headed by women, which is a consequence of rural urban migration. The proposal to create an equal opportunity in police forces and give women greater control of police stations is an acknowledgement of the biases and **callousness** displayed by the generally all-male law-enforcement authorities in cases of dowry and domestic violence. While the mere **enunciation** of such a policy has the salutary effect of sensitising the administration as a whole, it does not make the task of its implementation any easier. This is because the changes it envisages in the political and economic status of women strike at the root of power structures in society, and the basis of man-woman relationships. There is also the danger that reservation for women in the public life, while necessary for their greater viability could lapse into tokenism or become a tool in the hands of vote-seeking politicians. Much will depend on the dissemination of the policy and the ability of elected representatives and government agencies to reorder their priorities.

11. Which of the following words is the most opposite in meaning of the word *lofty* as used in the passage?
- a) Inferior
 - b) Sublimated
 - c) Humble
 - d) Exalted
 - e) Undignified
12. According to the passage, which of the following is a consequence of rural-urban migration?
- a) Legislation is not enforced properly
 - b) Many women migrate to urban areas leaving their family in the rural areas
 - c) Industries do not get sufficient manpower in rural areas
 - d) Development programmes are not effective
 - e) None of these
13. Which of the following is true about the policy?
- a) This is another pronouncement by the government
 - b) It is a pioneering effort
 - c) It is not based on the understanding of women's needs
 - d) It has made many big declarations
 - e) In its formulation, participatory approach was not followed
14. Which of the following words is most nearly the same in meaning as the word *enunciation* as used in the passage?
- a) Suggestion
 - b) Formulation
 - c) Recommendation
 - d) Recognition
 - e) Proclamation
15. Which of the following has the danger of becoming a token?
- a) Socially progressive legislation
 - b) Coparcenary rights to women
 - c) Reservation for women
16. According to the passage, which of the following aspects has been identified as, it alone would not bring change in the status of women?
- a) Decision making role in political area
 - b) Greater control over economic status
 - c) Creating equal-opportunity in police force
 - d) Enactment of socially progressive legislation
 - e) Coparcenary rights to women
17. At which stage were the grass-root level organisations involved for the policy?
- a) After the interim report
 - b) From the start
 - c) Not mentioned in the passage
 - d) At the final stages
 - e) None of these
18. Which of the following can be inferred from the passage?
- a) Women already had coparcenary rights
 - b) Most of the government's policies are formulated through participatory process
 - c) There is a need for stricter legislation
 - d) The policy recommends reservation for women
 - e) Domestic violence is on the rise
19. Which of the following word is the most opposite in meaning of the word *sweeping* as used in the passage?
- a) Half-hearted
 - b) Limited
 - c) Acceptable
 - d) Incomplete
 - e) Inconclusive
20. Which of the following is one of the far-reaching impacts of the policy?
- a) Giving women coparcenary rights
 - b) Creating an equal-opportunity in the police force

- c) Reservation for women
 d) According women a decision making role in political sphere
 e) None of these
21. Which of the following words is most nearly the same in meaning as the word *devolution* as used in the passage?
 a) Decentralisation
 b) Relegation
 c) Deployment
 d) Succession
 e) Revolution
22. According to the passage which of the following is not true?
 a) For effective implementation, the government agencies will have to reorder their priorities
 b) The policy is based on the understanding of the needs of women
 c) There is no law-enforcement bias in cases of dowry
 d) The policy gives a blueprint for programme of action
 e) Women should be given greater control of police stations
23. Which of the following words is most nearly the same in meaning as the word *callousness* as used in the passage?
 a) Prejudice
 b) Obliquities
 c) Insensitivity
 d) Casual
 e) Superiority
24. Which of the following words is most nearly the same in meaning as the word *delineates* as used in the passage?
 a) Outlines
 b) Demarcates
 c) Propagates
 d) Suggests
 e) Discusses
25. According to the passage, which of the following is the basic block in the effective implementation of the policy?
 a) Prevalent power structure in society
 b) Inadequate legislation
 c) Insensitive administration
 d) Lack of political will
 e) Male dominated law-enforcing authorities

Directions (Qs.26-32) : Read the following passage carefully and answer the questions given below it. Certain words/phrases are given in bold to help you to locate them while answering some of the questions.

A leading Indian industrialist in a recent article on ways to strengthen India's economy has drawn attention to the problems of inflation and industrial sickness among other things. One of the main reasons for industrial sickness in our country has been the fact that business and industrial managers, have not been able to look beyond the **immediate** future. They have been too preoccupied with their attempts to report favourable results for the current year - higher profits and larger dividends to the share-holders. The planning horizon has hardly ever exceeded five years. Investments have been inadequate- for new plants and towards diversification and expansions / modernisation and asset creation has seriously lagged behind. In business, growth is needed for survival; one has to grow if one does not want to be **wiped out**. This is particularly true today with liberalisation of imports and increasing competition. Moreover, growth and higher productivity create employment and higher employment creates larger markets both for industrial and consumer products. It was Henry Ford who brought home the need for the creation of a larger and a more stable middle class, that is, a larger number of people who can afford more and more of goods and services. Even after forty years of

Independence our industrialists have not been able to **shed** the petty shopkeeper's mentality and our highly educated management has tagged along merrily and without concern.

26. **The leading industrialist attributes industrial sickness mainly to**
- Lack of foresight among managers
 - Preoccupations of managers with matters unrelated to business
 - Higher profits and larger dividends to share holders
 - Inflation and other economic problems
 - Lacunae in five-year plans
27. **According to the passage, growth and increasing productivity lead to**
- Employment and thus provide an outlet to industrial and consumer products
 - Imposition of restrictions on imports
 - Encouragement to export of excess consumer goods
 - Disproportionate surplus of commodities
 - None of these
28. **Which of the following shortcomings of the Indian industrialists has been highlighted by the author of the passage ?**
- They invest unreasonably high amount on diversification and expansion
 - They are more concerned for immediate net gains than for developmental activities
 - They are reluctant to maintain the shopkeeper mentality
 - They are less concerned for payment of dividends to shareholders
 - None of the above
29. **Why did Henry Ford stress the need for a more stable middle class?**
- People in that class can afford to buy more and more expensive goods
 - Middle class people do not have shopkeeper mentality
 - Middle class people are mostly service oriented
30. **"The planning horizon has hardly ever exceeded five years" implies**
- Planning should not be for a period of less than five years
 - The planning process is very time consuming
 - The planners are not inclined to think of future
 - Planning should take care of all probable ups and downs in the next five-year period
 - Five-year period is too short for successful implementation of plans
31. **According to the passage, the net gains pursued by managers are at the cost of**
- Liberalisation of imports and increasing competition
 - Availability of markets for industrial and consumer products
 - Inflation and industrial sickness
 - Diversification, modernisation and asset creation
 - Higher profits and larger dividends to shareholders
32. **In order to improve the condition of Indian industries, the industrialist should do all of the following except**
- adopting strategies for diversification and modernisation
 - resorting to long-term planning for industrial growth and expansion in diverse fields
 - encouraging competition from industrialists within the country and from abroad
 - striving to earn short term profits
 - giving up the narrow mentality which very small shopkeepers generally have

Directions (Qs.33-35) : Pick out the word which is either SAME in meaning or OPPOSITE of the word/group of words in bold type as used in the previous passage.

33. Immediate

- a) Delayed
- b) Soon
- c) Quick
- d) Distant
- e) Current

34. Wiped Out

- a) Removed
- b) Annihilated
- c) Cleaned
- d) Implanted
- e) Established

35. Shed

- a) Discard
- b) Reduce
- c) Possess
- d) Withstand
- e) Destroy

Direction : (Qs.36-40) : In each question below, a theme is partially presented in two or three sentences. The complete theme comprises three, four or five logically arranged sentences. Out of these, the middle one or two sentences are not given. Three possible fillers denoted by (1), (2) and (3) are given below the partially provided theme. You have to find out which one or two or either or none can fill up the gap between the given sentences in order to make the theme complete. Study the five alternatives (a), (b), (c), (d) and (e), carefully and select the best out of them.

36. It is pointed out that stable, matured companies generally distribute high dividends. (.....) It is suggested that matured firms instead of distributing their earnings should put them to strategic uses for the long term vitality and survival.

1. This displeases the shareholders of the company.
2. This is not a sound policy in the long run.
3. The company should retain some portion of its earnings.

a) 2 and 3 only

b) 1 and 3 only

c) Either 1 or 2 and 3 together

d) 1 and 2 only

e) Either 3 or 1 and 2 together

37. The function was presided over by a wealthy industrialist who was alleged to be a tax evader. He had agreed to donate a huge sum. (.....). They were of the opinion that both means and ends should be pure.

1. He was invited not because he was genuinely interested in the activity, but he had agreed to donate a huge sum.

2. Many organisers had reluctantly taken this decision because they felt that so long as they are doing a good cause, it does not matter where the money comes from.

3. Some of the organisers were opposed to this strategy of the other section of organisers.

a) Either 1 or 2

b) Either 1 and 2 together or 2 and 3 together

c) Either 1 and 3 together or 2 and 3 together

d) 2 and 3 only

e) Either 1 or 2 or 3

38. It is good to remember that we won our struggle for freedom in a unique manner. (.....). But it is not good for diplomats to talk about this always.

1. It is also good that our diplomats repeatedly make this known to the people world over.

2. It is also good to remember that in some ways our foreign policy is unique.

3. This is intensely exasperating and in the end becomes just boring.

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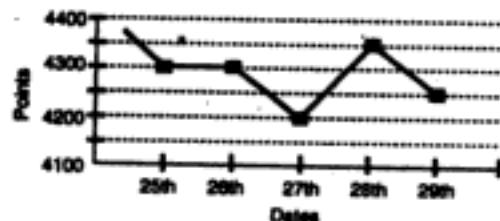
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- 6. The shares of which of the following companies register maximum percentage of change during this period?**
- TISCO
 - TELCO
 - DCM
 - JK SYNTHETIC
 - HMM
- 7. The average share price for all the companies combined at the beginning of the period is than the average price at the end.**
- more by Rs. 1.77
 - less by Rs. 1.47
 - more by Rs. 1.17
 - less by Rs. 2.07
 - None of these
- 8. The shares of which of the following companies show a continuous fall or no gain during this period?**
- ACC
 - DCM
 - JK SYNTHETIC
 - TISCO
 - RELIANCE
- 9. The maximum percentage of increase was registered for the company**
- TELCO
 - FOOD SPECIALITIES
 - TISCO
 - HMM
 - J.K. SYNTHETIC
- 10. Which of the following statements is true?**
- The share price of Food Specialities never decreased.
 - The number of companies for which the share prices increased was the same as the number of companies for which the share price decreased.
 - The share price of no company at the end was the same as at the beginning.
 - All the above statements are false.
 - All the above statements are true.
- 11. Match these designs into six pairs.**
-
- 12. Which is the second smallest circle, and which is the second largest circle?**
-

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22. $4174 + 7189 + 2179 + 3728 = ?$
- 15430
 - 14780
 - 17270
 - 13180
 - None of these
23. Four of the five parts numbered (a), (b), (c), (d) and (e) are exactly equal. Which of the parts is not equal to the other four? (The number of that part is the answer)
- $\frac{a+b+c+d}{4}$
 - $\frac{a}{4} + \frac{b}{4} + \frac{c}{4} + \frac{d}{4}$
 - $\frac{(a+b)}{4} + \frac{(c+d)}{4}$
 - $\frac{(a+b+c+d)^2}{4^2}$
 - $\frac{(a+b+c)}{4} + \frac{d}{4}$
24. A box contains 50 rupees in the form of coins of 1 rupee, 50 paise and 25 paise. The total amount of coins of 1 rupee and 25 paise is Rs.10 less than the amount of 50 paise coins. What is the number of 1 rupee coins in the box?
- Cannot be determined
 - 25
 - 20
 - 5
 - 15
25. What should come in place of the question mark (?)?
- $$3\frac{1}{4} + 5\frac{1}{2} + 6\frac{3}{4} - 1\frac{1}{2} = ? + 3\frac{1}{3}$$
- $17\frac{1}{3}$
 - $13\frac{2}{3}$
 - 14
 - $10\frac{3}{4}$
 - $10\frac{2}{3}$

Directions (Qs.26-27) : Stock Market Sensitive Index



26. What is the average index for the given five dates?
- 4400
 - 4360
 - 4300
 - 5350
 - 4260
27. Which of the following statements is NOT true?
- The index fell by 100 points from 26th to 27th
 - The index fell by 150 points from 28th to 29th
 - The index was same on the two of the given dates
 - On 25th there was a fall in the index
 - The graph shows three falls in the index
28. One-third of a number is ten more than its one-fourth. What is 60% of that number?
- 120
 - Cannot be determined
 - 24
 - 72
 - 48
29. Four of the five parts numbered (a), (b), (c), (d) and (e) are exactly equal. Which of the parts is not equal to the other four? (The number of that part is the answer).
- $8^2 \times 8^2$
 - $8 \times 8 \times 8 \times 8$
 - $(8 \times 8 \times 8)^2 + 8^2$
 - 8^4
 - $16^4 + 8^4$
30. Narayan spends 30% of his monthly salary on his education. Of the remaining, 50% is spent on food items and transport. After paying the rent of Rs.1000 he is left with Rs.1,800. What is his monthly salary?

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Reasons :

- I. They want to prove that in spite of living in a luxurious way, they are not involved in any worldly pleasure.
- II. They do not want their devotees and disciples to be put to any discomfort.
- a) O b) O
 c) O d) O
 e) O

Statement :

36. Many social workers and medical men have been demanding prohibition of intoxicants.

Reasons :

- I. Intoxicants are very expensive hence unbalance the economy of the family.
- II. Intoxicants cause addiction and ruin the health of the person who becomes used to them.
- a) O b) O
 c) O d) O
 e) O

Statement :

37. It has often been observed that students who score very high marks in Board and University Examinations do not fare very well in competitive examinations.

Reasons :

- I. Such students become overconfident.
- II. They don't get proper guidance.
- a) O b) O
 c) O d) O
 e) O

Statement :

38. Units that process hazardous industrial waste have to obtain 'No-Objection' certificate from the Environment Ministry.

Reasons :

- I. The process may pollute the atmosphere.
- II. If handled without proper precautions, the waste material might be dangerous to life and limb of handlers during its recycling process.
- a) O b) O
 c) O d) O
 e) O

Statement :

39. Unrestricted entry of foreign media has been strongly opposed by journalists.

Reasons :

- I. The entry of foreign newspapers would affect Indian Press.
- II. Such newspapers might mould minds of people in adverse direction and thus would not be in the interest of the country.
- a) O b) O
 c) O d) O
 e) O

Statement :

40. Greece has banned toy ads on their national TV during prime hours.

Reasons :

- I. The ban aims at protecting parents from children's demand for expensive toys.
- II. The government of Greece does not want children to waste their time in playing with toys.
- a) O b) O
 c) O d) O
 e) O

Statement :

41. Every developing country seeks adoption by some big power.

Reasons :

- I. The developing countries have a sense of insecurity and thus need a Godfather to protect their interests.
- II. No country has capacity to develop on its own.
- a) O b) O
c) O d) O
e) O

42. In each next class of a school the fee is increased by 15% of the fee paid in the previous class. But for the convenience of the accounts section, the amount is raised to a round figure ending with a zero. (e.g., if the fee is calculated to be 242, it would be raised to Rs.250). If the fee for class VII is Rs.180 the fee for class X would be :
- a) Rs. 290 b) Rs. 280
c) Rs. 300 d) Rs. 270
e) Rs. 310

43. A thief ran away on his two wheeler at a speed of 60 km per hour. After 10 minutes, the police-car arrived and started chasing him at a speed of 70 km per hour. After how much time will they be able to catch the thief ?
- a) 68 min. b) 1 hr.
c) 1 hr. 10 min. d) 50 min.
e) None of these

What is common in the following :

44. *bandage : plaster : crust*

The terms are related to :

- a) injuries
b) building process
c) covering for protection
d) natural outer layer
e) None of these

45. *conception : apprehension : perception*

The terms are related to :

- a) reflex action
b) idea

- c) self-evaluation
d) morality
e) None of these

46. *puff : gust : blast*

The terms are related to :

- a) vanity b) anger
c) destruction d) wind
e) None of these

Directions (Qs.47-50) : In each of the questions given below, Statement 1 and 2 are followed by Conclusions I and II. Taking the Statements to be true, although they may appear at variance with commonly accepted facts, tick your answer as under :

- a) Only Conclusion I follows from the Statements.
b) Only II follows from the Statements.
c) Both I and II follow from the Statements.
d) Either I or II follows.
e) Neither I nor II follows.

Statements :

47. 1. Some tubes are flasks.
2. All flasks are cups.

Conclusions :

- I. Some cups are tubes.
II. All cups are flasks.
a) O b) O
c) O d) O
d) O

Statements :

48. 1. All lawyers who are not doctors are either engineers or businessmen.
2. Only some businessmen and some doctors wear caps.

Conclusions :

I. Some lawyers wear caps.

- a) O
- b) O
- c) O
- d) O
- e) O

II. No lawyer, who is an engineer, wears cap.

- a) O
- b) O
- c) O
- d) O
- e) O

Statements :

49. 1. All queens are fairies.
2. All fairies are angels.

Conclusions :

- I. Some angels are queens.
II. All queens are angels.

Statements :

50. 1. 50% of the students got distinction marks in Mathematics.
2. 40% students got distinction marks in Chemistry while 10% students got distinction in Physics.

Conclusions :

- I. Every student got distinction in some subject or the other.
II. No student got distinction in more than one subject.

- a) O
- b) O
- c) O
- d) O
- e) O

1994

ANSWERS

General Awareness

(Answers are given below with reference to the year 1994)

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. e | 2. c | 3. b | 4. c | 5. d | 6. a | 7. c | 8. e |
| 9. e | 10. a | 11. c | 12. d | 13. e | 14. a | 15. b | 16. a |
| 17. a | 18. a | 19. d | 20. d | 21. e | 22. e | 23. a | 24. a |
| 25. b | 26. b | 27. b | 28. b | 29. e | 30. e | 31. b | 32. c |
| 33. e | 34. c | 35. e | 36. b | 37. e | 38. c | 39. c | 40. e |
| 41. d | 42. c | 43. e | 44. c | 45. e | 46. d | 47. a | 48. c |
| 49. a | 50. b | | | | | | |

English

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. e | 2. b | 3. c | 4. a | 5. d | 6. b | 7. a | 8. c |
| 9. e | 10. d | 11. e | 12. e | 13. b | 14. e | 15. c | 16. d |
| 17. b | 18. d | 19. b | 20. a | 21. a | 22. c | 23. c | 24. a |
| 25. a | 26. a | 27. a | 28. b | 29. a | 30. e | 31. d | 32. d |
| 33. e | 34. b | 35. c | 36. a | 37. c | 38. e | 39. b | 40. c |
| 41. a | 42. a | 43. c | 44. d | 45. b | 46. c | 47. c | 48. b |
| 49. d | 50. a | | | | | | |

Quantitative Aptitude

- | | | | | | | | |
|------|---------|-------|-------|-------|-------|-------|-------|
| 1. d | 2. c, e | 3. d | 4. a | 5. e | 6. c | 7. c | 8. b |
| 9. a | 10. b | 11. a | 12. a | 13. e | 14. a | 15. e | 16. a |

17. b	18. e	19. d	20. b	21. d	22. c	23. d	24. a
25. e	26. c	27. b	28. d	29. e	30. a	31. b	32. c
33. e	34. c	35. c	36. c	37. b	38. c	39. a	40. b
41. e	42. b	43. a	44. b	45. d	46. d	47. a	48. b
49. a	50. c						

Test of Reasoning

1. c	2. c	3. e	4. a	5. b	6. d	7. b	8. a
9. e	10. d	11. e	12. e	13. d	14. b	15. b	16. c
17. d	18. a	19. d	20. e	21. b	22. a	23. d	24. e
25. d	26. a	27. c	28. d	29. b	30. d	31. a	32. b
33. c	34. c	35. e	36. b	37. d	38. c	39. c	40. a
41. a	42. a	43. b	44. c	45. b	46. d	47. a	48. b
49. c	50. e						

EXPLANATORY NOTES (1994)**ENGLISH**

41. (a) The correct answer: If modernity is entitled. Entitled means give. Here it is used in the Passive Sense. So, is entitled. We can say: The position entitles him or he is entitled.
42. (a) The correct answer is : The increasing time. The past tense indicates that people do not spend any further time in watching T. V.. Again the past participle does not express the state of continuation.
43. (c) Say one's life and not one's own life. The emphasis conveys a ridiculous sense as if one has another life, other than his own.
44. (d) the correct answer is In It and not to it
45. (b) People did not reduce. So say: People had already been reduced to poverty.
46. (c) Say: he has eventually triumphed. All the other parts of the sentence are in the present tense and there is no justification for this to be in the past tense.
47. (c) Say : and had no experience

The Conjunction 'and' Connects two phrases or Clauses of the same rank. If one is a phrase the other one cannot be a Clause. Even in the case of Clauses both of them must be either Principal Clauses or Subordinate Clauses; therefore a Clause must follow and

Hence (c) is the answer.

48. (b) Say : mainly instrumental or main instruments. If it is instrumental it must be the adverb mainly; if it is the noun instruments, it must be an adjective main.
49. (d) It is an expensive exercise to/for a leader not by a leader.
So say: exercise to a leader.
50. (a) Say: Faced with a slow drop more in production costs ; or faced with a more slow drop in production costs.... Than can appear in the comparatives except in other than.

Quantitative Aptitude

13. (e) Ratio of qualified to appeared

$$\text{in } 1989 = \frac{199}{212} = .939$$

$$\text{in } 1990 = \frac{350}{550} = .637$$

$$\text{in } 1991 = \frac{408}{701} = .582$$

$$\text{in } 1992 = \frac{495}{636} = .778$$

$$\text{in } 1993 = \frac{499}{680} = .733$$

$$\text{in } 1994 = \frac{506}{710} = .713$$

∴ Ans : 1989

Note : This is time consuming. Take approximate value.

14. (a) Percentage of Qualified to appeared

$$\frac{2457}{3489} \times 100 = 70.42$$

= 70.(approximately)

15. (e) 15 men in 1 day = $\frac{1}{10}$ of total work

$$\therefore 1 \text{ man in 1 day} = \frac{1}{150} \text{ of total work}$$

$$\text{In 1 day 20 children} = \frac{1}{15} \text{ of total work}$$

$$\text{In 1 day 1 child} = \frac{1}{300} \text{ of total work}$$

10 men & 10 children in 1 day :

$$= \frac{10}{150} + \frac{10}{300} = \frac{1}{15} + \frac{1}{30} = \frac{3}{30} = \frac{1}{10}$$

\therefore Days required to complete the work : 10

16. (a) In the given series, each numbers is got by multiplying previous number by 3 and adding 4.

Hence the number 20 must be replaced by

$$(3 \times 6 + 4 = 22) \quad 22.$$

17. (b) Age of Iona + age of Meera = $28 \times 2 = 56$ years

Age of Iona + age of Meera + age of Clara

$$= 26 \times 3 = 78 \text{ years}$$

$$\therefore \text{Age of Clara} = 78 - 56$$

$$= 22 \text{ years.}$$

18. (e) Let the number be x.

By data :

$$\frac{1}{3} \left(\frac{2}{5} \left(\frac{1}{4} x \right) \right) = 40$$

$$\frac{2x}{60} = 40$$

$$x = 1200.$$

21. (d) Here each number is obtained by multiplying previous number by 2 and adding 8

24. (a) Let the number of 1 Re coins be x

50 paise coin be y,

25 paise coin be z

Then by data :

$$(1) x + (.5)y + (.25)z = 50$$

$$x + \frac{1}{2}y + \frac{1}{4}z = 50$$

$$4x + 2y + z = 200$$

$$4x + z = 200 - 2y \quad \dots (1)$$

$$(1) x + (.25)z = y (.5) - 10$$

$$x + \frac{1}{4}z = \frac{1}{2}y - 10$$

$$4x + z = 2y - 40 \quad \dots (2)$$

(1) & (2)

$$200 - 2y = 2y - 40$$

$$240 = 2y + 2y$$

$$4y = 240$$

\therefore the value of 1 Rs coins + 25 Ps coins = Rs.20.

∴ Their numbers cannot be precisely determined.

Alternative Method

Let the value of 1/2 Rs. coins be x Rs.

Then the value of 1 Rs coins + 25 Ps coins

$$= (x - 10) \text{ Rs.}$$

Therefore the value of 1 Rs coins + 25 Ps coins + 50 Ps coins = $x + x - 10 = 2x - 10$.

$$= 50. \Rightarrow x = 30.$$

Therefore the no. of 50 Ps pcoins = 60

and the value of both 1 Rs coins and 25 Ps coins = 20 Rs.

28. (d) Let the number be x

By data :

$$\frac{1}{3}(x) = \frac{1}{4}(x) + 10$$

$$\frac{1}{3}(x) - \frac{1}{4}(x) = 10$$

$$\frac{4x - 3x}{12} = 10$$

$$x = 120$$

$$60\% \text{ of } x = \frac{60}{100} \times 120$$

$$= 72.$$

29. (e) As $8^2 \times 8^2 = 8^4$

$$8 \times 8 \times 8 \times 8 = 8^4$$

$$(8 \times 8 \times 8)^2 + 8^2 \frac{(8^3)^2}{8^2} = \frac{8^6}{8^2} = 8^4$$

$$16^4 \div 8^4 = \frac{(8 \times 2)^4}{8^4} = \frac{8^4 \times 2^4}{8^4} = 2^4$$

30. (a) Let the monthly salary be x .

$$\text{Amount spent for education} = \frac{30x}{100} = \frac{3x}{10}$$

$$\text{Remaining salary} = x - \frac{3x}{10} = \frac{7x}{10}$$

Amount spent for food & transport

$$= \frac{50}{100} \left(\frac{7x}{10} \right)$$

$$= \frac{35x}{100}$$

Salary = Amount spent for various purposes + 1800

$$x = \frac{3x}{10} + \frac{35x}{100} + 1000 + 1800$$

$$\therefore x - \frac{3x}{10} - \frac{35x}{100} = 2800$$

$$\frac{100x - 30x - 35x}{100} = 2800$$

$$\frac{35x}{100} = 2800$$

$$35x = 280000$$

$$x = 8000$$

∴ Salary Rs.8000.

33. (e) 1 quintal (100 kg) wheat cost Rs.700

∴ C.P. of 1 kg. = Rs.7

S.P. of 50 kg. = $50 \times 7 + 10\% (350)$

$$= 350 + 35$$

$$= \text{Rs.}385$$

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$$A = P \left(1 + \frac{r}{100}\right)^2$$

$$\therefore C.I. = A - P$$

$$= P \left(1 + \frac{r}{100}\right)^2 - P$$

$$= P \left[1 + \frac{2r}{100} + \left(\frac{r}{100}\right)^2\right] - P$$

$$= P \left[1 + \frac{2r}{100} + \left(\frac{r}{100}\right)^2 - 1\right]$$

$$= P \left[\frac{2r}{100} + \left(\frac{r}{100}\right)^2\right]$$

$$= 10000 \left[\frac{2 \times 5}{100} + \left(\frac{5}{100}\right)^2\right]$$

$$= 10000 \left[\frac{1}{10} + \frac{25}{10000}\right]$$

$$= 10000 \times \frac{(1000 + 25)}{10000} = 1025$$

49 (a) Let R get Rs. x

Q gets : x + 500

P gets $(x + 500) + 700 = x + 1200$

$\therefore P + Q + R$ get :

$$x + (x + 500) + (x + 1200) = 4700$$

$$x = 1000$$

P : Rs. 2200, Q : Rs. 1500, R : Rs. 1000

50 (c) 4, 9, ..., 25, 36, 49

Clearly the nos. are the squares of 2, 3, 4, 5, ...

\therefore The missing no. is $4^2 = 16$

Test of Reasoning

42. (a) For VII : Rs. 180

$$\text{for VIII} = \frac{180 \times 115}{100} = 207$$

Rounded to Rs. 210

$$\text{for IX} = \frac{210 \times 115}{100} = \frac{483}{2} = 241.5$$

Rounded to Rs. 250

$$\text{for X} = \frac{250 \times 115}{100} = \frac{572}{2} = 287\frac{1}{2}$$

Rounded to Rs. 290

43. (b) The policeman arrived after 10 minutes.

In 10 minutes the thief would go 10 km.

Relative Speed of the policeman = $70 - 60 = 10$ Km/h

Time he takes to catch the thief

$$= \frac{D}{S} = \frac{10}{10} = 1 \text{ hr}$$

1 hr after the chase has begun.

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- a) Shyam Benegal
b) Meera Nair
c) Shekhar Kapoor
d) Mani Ratnam
e) None of the above
11. What was the approximate total fish production from the marine resources during 1993-94?
a) 2.2 million tonnes
b) 1.7 million tonnes
c) 3.9 million tonnes
d) 4.2 million tonnes
e) 2.6 million tonnes
12. Who is the author of the book "Muslim law and the Constitution"?
a) Mr. S.S. Musafir
b) Mr. M.J. Akbar
c) Mr. Nani Palkivala
d) Mr. Soli Sorabjee
e) None of these
13. Which of the following represents the life expectancy at birth in India for the period 1991-96?
a) 61.6 years b) 48.6 years
c) 71.1 years d) 68 years
e) 46 years.
14. Who among the following has been awarded "Financial Express Award" for excellence in Economics this year?
a) Professor M.L. Dantwala
b) Professor Bhabatosh Dutta
c) Professor K.N. Raj
d) Dr. Manmohan Singh
e) Dr. Montek Singh Ahluwalia
15. What is the estimated percent increase in Gross Domestic Product at constant prices in 1994-95?
a) 6.2 b) 4.7
c) 5.3 d) 7.3
e) 3.9
16. Who among the following has received the 'Best Actor' filmfare award?
a) Shah Rukh Khan
b) Nana Patekar
c) Salman Khan
d) Amir Khan
e) None of the above
17. Creation of how many additional employment opportunities is envisaged during the Eighth Plan period?
a) 56 million b) 43 million
c) 48 million d) 26 million
e) 36 million
18. Meghalaya is exclusively tribal State for:
a) Khasis, Usharis and Lakhirs
b) Khasis, Jaintias and Garos
c) Jaintias, Garos and Kurkis
d) Garos, Pangs and Hmaro
e) Khasis, Pawis and Maras
19. The Government of India recently launched the World Bank assisted 'IX India Population Project' for implementation. In which of the following groups of States was it launched?
a) Assam, Tripura, Bihar
b) Assam, West Bengal, Rajasthan
c) Assam, Karnataka, Rajasthan
d) Assam, Andhra Pradesh, Karnataka
e) Assam, Karnataka, Madhya Pradesh
20. The U.N. Peace keeping forces have pulled out in March this year from the country of
a) Cambodia b) Nigeria
c) Haiti d) Somalia
e) None of these
21. The cricket team from which of the following groups of countries participated in the New Zealand centenary cup cricket tournament?
a) West Indies, Australia, India, New-Zealand
b) England, New Zealand, India, South Africa
c) Pakistan, New Zealand, Australia, South Africa

- d) India, South Africa, New Zealand, Australia
 e) New Zealand, England, West Indies, Australia
- 22.** Who among the following holds the World number one position in international women's tennis as per ATP rankings ?
 a) Mary Pierce
 b) Steffi Graf
 c) Arantxa Sanchez - Vicario
 d) Gabriela Sabatini
 e) None of the above
- 23.** Which of the following is the name of the smallest part of the matter discovered recently by the scientists?
 a) Quark b) Proton
 c) Neutron d) Positron
 e) None of these
- 24.** Approximately what is the total monthly consumption of Aviation Turbine Fuel (ATF) by Indian Airlines and all the private airlines together?
 a) 50,000 kilo litre
 b) 40,000 kilo litre
 c) 1,00,000 kilo litre
 d) 70,000 kilo litre
 e) 60,000 kilo litre
- 25.** Late Iftekhar Ahmad was famous in which of the following fields?
 a) Acting b) Singing
 c) Music d) Literature
 e) Journalism
- 26.** Which of the following represents the ratio of equity of the RRBs held by the Central government, the sponsor banks and the concerned State government respectively ?
 a) 50 : 30 : 20 b) 50 : 35 : 15
 c) 40 : 40 : 20 d) 40 : 35 : 25
 e) 55 : 30 : 15
- 27.** The Jain commission is associated with which of the following ?
 a) Probing the conspiracy angle of the Rajiv Gandhi assassination
 b) Communal riots in Bombay during December (January 1992 - 93)
 c) Centre - State relationship
 d) Cauvery water dispute
 e) None of these
- 28.** Approximately what was the total advances of banks insured by the Export Credit Guarantee Corporation of India Ltd. under its various schemes during 1993-94 ?
 a) Rs. 73,700 crore
 b) Rs. 70,600 crore
 c) Rs. 63,600 crore
 d) Rs. 85,600 crore
 e) Rs. 75,400 crore
- 29.** As per the recent UNICEF report, approximately how many people suffer from malnutrition in India?
 a) 250 million b) 300 million
 c) 350 million d) 200 million
 e) 150 million
- 30.** What are the total exports of readymade garments by India in the Calendar year of 1994 ?
 a) Rs. 12, 500 crore
 b) Rs. 15,300 crore
 c) Rs. 10, 800 crore
 d) Rs. 8, 500 crore
 e) Rs. 20, 200 crore
- 31.** The United Nations University is located in which of the following cities?
 a) Geneva b) New York
 c) Paris d) Switzerland
 e) Tokyo
- 32.** Who among the following is the chief of the World Trade Organisation (WTO)?
 a) Peter Sutherland
 b) Renato Ruggiero
 c) Kim chul Su
 d) Carlos Salinas de Gortari
 e) None of the above

33. Which of the following is / are the objectives of the recently constituted National Minorities Development Finance Corporation by Govt. of India?
- To promote economic and development activities for the benefit of the backward sections among the minorities, preference being given to occupational groups and women.
 - To extend loans and advances to the members belonging to the minority section for setting up of self-employment and other ventures.
 - To protect the rights of the people belonging to minority communities in the employment sector.
- a) All i,ii and iii b) Only ii and iii
c) Only i and iii d) Only i and ii
e) None of these
34. Doordarshan earned approximately how much amount as commercial revenue during the financial year 1994-95 ?
- Rs.600 crore b) Rs.200 crore
 - Rs.280 crore d) Rs.340 crore
 - Rs.400 crore
35. The Government of which of the following states has declared in March this year services of Secondary, Higher Secondary and Junior College teachers as essential services for work related to examinations ?
- West Bengal b) Maharashtra
 - Gujarat d) Orissa
 - None of these
36. How much amount the National Bank for Agricultural and Rural Development (NABARD) is planning to disburse production and investment refinance during 1995-96 for agricultural and rural development with a view to substantially stepping up ground level credit flow?
- Rs.5,000 crore
 - Rs.10,000 crore
 - Rs.15,000 crore
 - Rs.20,000 crore
 - Rs.12,000 crore
37. Which of the following Japanese cities was the worst affected by the earthquake in January this year ?
- Tokyo b) Koido
 - Hiroshima d) Kobe
 - None of these
38. What is the targetted additional power generation capacity during the Ninth plan period in order to keep the shortage within manageable limits?
- 50,000 MW b) 40,000 MW
 - 80,000 MW d) 35,000 MW
 - 60,000 MW
39. Approximately how many persons are currently employed in handicrafts and cottage industries sector in India ?
- 50 lakh b) 20 lakh
 - 60 lakh d) 80 lakh
 - 45 lakh
40. Under which of the following Articles of the Indian Constitution Agriculture, presently a state subject, can be shifted to the concurrent list ?
- 357 b) 368
 - 375 d) 328
 - Cannot be shifted
41. Which of the following groups will participate in the finals of the World Chess Championship?
- Anatoly Karpov and Gata Kamsky
 - Anatoly Karpov and Boris Gelfand
 - Boris Gelfand and Gata Kamsky
 - Valery Salov and Antony Karpov
 - Valery Salov and Karpov
42. Which of the following institutions / organisations has been entrusted with the job of determining the various service charges to be levied by banking sector ?
- National Institute of Bank Management
 - Indian Institute of Bankers'
 - Indian Banks' Association
 - Institute of Cost and Works Accountants of India
 - Indian Institute of Management, Calcutta

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PROBATIONARY OFFICERS' (B.S.R.B., DELHI) EXAM. HELD IN OCTOBER, 1995

ENGLISH

Directions (Qs. 1-5) : Each question consists of an incomplete sentence. Pick out the most appropriate choice from among those given below each incomplete sentence to complete its meaning fully.

1. To succeed in a difficult task,
 - a) one needs to be persistent
 - b) persistent is needed
 - c) you need a person of persistent
 - d) persistent is what one needs
 - e) one needs to be persistence
2. Every person must learn
 - a) to make wise use of his time
 - b) that his time needs a wise use
 - c) that how wisely his time can be used
 - d) to using his time in a wisely manner
 - e) wise ways in his time's use.
3. Many people have law degrees,
 - a) but some of them do not practise it
 - b) however it isn't practised by all
 - c) yet some are not undergoing practices
 - d) but not all of them practise law
 - e) some of them do have practice also
4. If they share burden alternately, they
 - a) will get tired soon
 - b) won't get tired
 - c) don't get tired
 - d) will get fatigued
 - e) can't feel tiring
5. The more we looked at the piece of modern art,

- a) we liked it less
- b) better we liked it
- c) it looked better
- d) the more we liked it
- e) the less we like it

Directions (Qs. 6 - 10) : In each question, there are two sentences. These two sentences are to be combined into one sentence which should convey the same meaning as conveyed by the two sentences. It is possible to combine the pair of sentences in various different ways. Beginnings of three such sentences is given below each pair of sentences. You have to find out which one, two, three or none of them is the correct, appropriate and logical way to combine the pair of sentences into one sentence to convey the same meaning conveyed by the two sentences.

Example - He can walk fast. He is tall.

- 1) He is tall ...
 - 2) Because he is tall ...
 - 3) Since he can ...
-
- a) Only 1
 - b) Only 2
 - c) Only 3
 - d) 1 & 2 only
 - e) None of these

The complete sentence of the above beginnings would be as follows :

- A) He is tall because he can walk fast.
- B) Because he is tall he can walk fast.
- C) Since he can walk fast he is tall.

It is obvious that the sentence at (B) only is the most logical and appropriate combination of the pair of sentences. A and C are illogical and

ridiculous. Therefore, the right answer is "only B" which is denoted by Serial No.2.

6. The boy got his leg badly injured. He was playing hockey.

- 1) While the boy was ...
 - 2) While playing ...
 - 3) Since his leg was ...
- a) Only 1 b) Only 2
 c) Only 3 d) 1 & 2 only
 e) None of these

7. The shopkeepers closed the shops. They feared arson and looting.

- 1) With the apprehension of arson ...
 - 2) Apprehending the closure of the ...
 - 3) Fearing the arson and looting by the shopkeeper ...
- a) Only 1 b) Only 2
 c) Only 3 d) 1,2 & 3
 e) None of these

8. You will not recover fast. Refrain from smoking.

- 1) Unless you recover ...
- 2) If you want to refrain from smoking ...
- 3) In spite of refraining from ...

Directions (Qs. 11 - 20) : Read the following passage carefully and answer the questions given below it. Certain words / phrases in the passage are printed in bold to help you to locate while answering some of the questions.

Hailed as a land mark legislation, the Consumer Protection Bill is considered to be the first concrete step towards establishing consumer's sovereignty in the country. The bill has given such enormous powers to consumers and consumer organisations that if utilised effectively, it can become a very powerful tool in bringing unscrupulous, erring manufacturers and traders to book.

Replying to a debate on the bill in the Rajya Sabha, the Union Minister for Food and Civil Supplies emphasised that the bill was compensatory, and not penal in character. This very nature of the bill, it is hoped, would limit the time taken for settling consumer disputes, while at the same time, promoting a healthy respect, among manufacturers, for the rights of consumers.

One of the most important features of the bill is the provision for redressal of grievances against public utility services. Being monopolies, most of these services, like the telephone, transport, power supply, water supply, insurance, have grown totally insensitive to consumer complaints. With the result, an

- a) Only 1 b) Only 2
 c) Only 3 d) 1 & 2 only
 e) None of these
- 9. All his family members behave very cordially with one another. The home atmosphere is conducive to all round development.**
- 1) Because the home atmosphere is very conducive ...
 - 2) The cordial behaviour of all his family members ...
 - 3) Although all his family members ...
- a) Only 1 b) Only 2
 c) Only 3 d) 1,2 & 3
 e) None of these
- 10. The watchman waved his cane. In the nick of time the barking dog ran away.**
- 1) As soon as the barking...
 - 2) Hardly was the watchman ...
 - 3) No sooner did the watchman ...
- a) Only 1 b) Only 2
 c) Only 1 & 3 d) 1, 2 & 3
 e) None of these

aggrieved consumer has had no alternative but to seek recourse to long and complicated legal battles even for a small matter like obtaining compensation for the inconvenience caused due to the breakdown of a bus in the state-owned transport service, or to stop the telephone department from disconnecting the phone for non-payment of either an "imaginary" bill or a highly inflated bill.

11. **The value of the laws in the Bill will depend on**
 - a) how enormous the powers given are
 - b) cooperation between consumers and consumer organisation
 - c) the effective use of the power given to the consumer
 - d) bringing erring manufacturers and traders to book
 - e) the number of cases disposed of during the limited time span
12. **The expression seek recourse to means**
 - a) apply for compensation
 - b) avoid using
 - c) struggle without losing hope
 - d) depend on
 - e) find out a way
13. **One expected result of the proposed law is**
 - a) the quicker settlement of consumers' disputes
 - b) greater awareness of consumers' rights and responsibilities
 - c) the promotion of respect for the health of consumers
 - d) the proper balance between penal and compensatory practices
 - e) the prosecution of all the unscrupulous and antisocial elements
14. **The inclusion of public utility services in the scope of the Bill is important because**
 - a) it will permit the redressal of grievances
 - b) public monopolies are no longer efficient
 - c) the number of complaints has grown to an insensitive level
 - d) these monopolies do not respond to consumers' complaints
15. **A highly-inflated telephone bill is an outcome of**
 - a) disconnecting the phone for non payment of bills
 - b) the telephone authorities' sensitivity to consumers' complaints
 - c) stopping the telephone department from disconnecting the phone.
 - d) consumers' indiscriminate use of telephones
 - e) none of these
16. **The Consumer Protection Bill is generally seen as**
 - a) a landmark for consumers
 - b) the beginning of a process of giving real power to consumers
 - c) a concrete expression of sovereign constitutional ideal
 - d) a powerful tool to fight unscrupulous elements
 - e) a penal action against the erring manufacturers and traders
17. **Which of the following is most opposite of the word ENORMOUS as used in the passage ?**
 - a) tiny
 - b) insignificant
 - c) minute
 - d) substantial
 - e) normative
18. **The word aggrieved means**
 - a) one who has lost relatives and/or property
 - b) one who is covered by the bill
 - c) one who has a proper complaint
 - d) one who has no alternative for redressal
 - e) one who is in grief.
19. **The Minister's statement in the Rajya Sabha indicates that**

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46. We must explore sources of energy as our supply of fossil fuel has been
a) sufficient, increased
b) alternate, depleted
c) guaranteed, over
d) innovative, augmented
e) natural, exhausted
47. Children are more than adults; it is their quickness in learning a new language.
a) conservative, seen in
b) intelligent, disproved by
c) resourceful, proportionate to
d) susceptible, demonstrated in
e) adaptable, reflected in
48. We must prevent endangered wild animal species from becoming in order that our future generation may the great diversity of animal life.
a) outdated, know
b) universal, escape
49. He shifted to his late parents' house not because of the it provided but for purely reasons.
a) convenience, sentimental
b) value, monetary
c) comforts, personal
d) benefit, extraneous
e) grace, aesthetic
50. Though he is reputed for his technical , his books were sadly of the work of others as he lacked originality.
a) skill, independent
b) knowledge, ignorant
c) expertise, derivative
d) advice, unconscious
e) dependence, indicative

**PROBATIONARY OFFICERS' (B.S.R.B., BARODA) EXAM.
HELD IN MARCH, 1995**

QUANTITATIVE APTITUDE

1. The population of a city increases at the rate of 5% annually. The present population is 185220. The population 3 years ago was:
 - a) 181,500
 - b) 183,433
 - c) 160,000
 - d) 127,783
 - e) 188,202

2. Pencils, pens and exercise books in a shop are in the ratio 10 : 2 : 3. If there are 120 pencils, the number of exercise books in the shop is :
 - a) 36
 - b) 48
 - c) 72
 - d) 400
 - e) 480

3. The average of 11 observations is 60. If the average of the first five observations is 58 and that of the last five is 56, then the sixth observation is :
 - a) 90
 - b) 110
 - c) 85
 - d) 100
 - e) 40

Directions (Qs.4-8) : Study the table carefully and answer the related questions:

The percentages of total population of India by age groups for the year 1982 :

Age group	Per cent
upto 15	30.00
16-25	17.75
26-35	17.25
36-45	14.50
46-55	14.25
56-65	5.12
66 and above	1.13
Total	100.00

4. If the percentage of rural population of the country in 1982 was 65% for all age groups, what was the percentage of urban population in the age group 36-45 and above to that of total population?
 - a) 12.56%
 - b) 12.25%
 - c) 12.6%
 - d) 13.5%
 - e) 11.5%

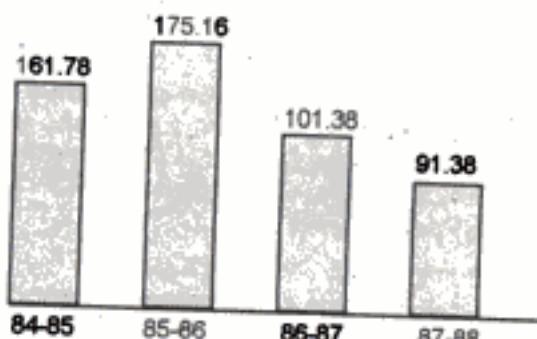
5. If the ratio of female and male in the age group 26-35 is 950 : 1000 and total population during 1982 was 650 million, then what was the number of males in that age group?
 - a) 57.5 m
 - b) 80.5 m
 - c) 90.00 m
 - d) 67.25 m
 - e) 91.00 m

6. If the difference between the number of people in the age group of 46-55 and 16-25 is 14 million, then the population of India is :
 - a) 400 million (approx)
 - b) 390 million (approx)
 - c) 365 million (approx)
 - d) 410 million (approx)
 - e) None of these

7. If there were 20 million people in the age group of 56-65 and above, what was the difference between the populations of age groups 16-25 and 46-55?
 - a) 10.5 m
 - b) 11.20 m
 - c) 10.2 m
 - d) 8.95 m
 - e) 9.5 m

8. In India, there are 200 million people below 36 years. How many million people are in the age group 46-55?
 - a) 30.07 million (approx)
 - b) 15.75 million (approx)
 - c) 43.85 million (approx)
 - d) 59.30 million (approx)
 - e) 60.30 million (approx)

Directions (Qs.9-13) : The figure given below gives the information of Export (fruits & vegetables) in crores of Rupees. Answer the questions related to data.



9. What is the difference of export during 1984-86 and 1986-88?
 - a) 144.10
 - b) 134.70
 - c) 144.18
 - d) 145.5
 - e) 145.11
10. If the export during 1984-85 was 25% more than that during 1983-84, what was it during 1983-84?
 - a) 129.4
 - b) 121.3
 - c) 135.7
 - d) 133.9
 - e) 129.7
11. Export during 1986-87 is what per cent less than that during 1984-85?
 - a) 43%
 - b) 37%
 - c) 41%
 - d) 40%
 - e) 39%
12. What is the decrease per cent of export during 1987-88 from 1986-87?
 - a) 10%
 - b) 9.9%
 - c) 11%
 - d) 7.3%
 - e) 8.1%
13. What will be the average annual export during the period under consideration?
 - a) 123.4 (approx)
 - b) 142.5 (approx)
 - c) 135.6 (approx)
 - d) 132.4 (approx)
 - e) 152.5 (approx)

14. The average age of 40 students of a class is 15 years. When 10 new students are admitted, the average age is increased by 0.2 years. The average age of the new students is :
 - a) 15.2 years
 - b) 16 years
 - c) 16.2 years
 - d) 16.4 years
 - e) 15 years
15. The prices of a scooter and T.V. are in the ratio 5:4. If a scooter costs Rs.4000 more than the T.V. set, the price of T.V. set (in Rs) is :
 - a) 12,000
 - b) 14,000
 - c) 16,000
 - d) 20,000
 - e) 13,000
16. If $x:y::5:2$ the value of $8x+9y:8x+2y$ is :
 - a) 22 : 29
 - b) 29 : 22
 - c) 61 : 26
 - d) 26 : 61
 - e) 59 : 36
17. A man rows 750 m in 675 seconds against the stream and returns in $7\frac{1}{2}$ minutes. His rowing speed in still water is :
 - a) 3 km/hr
 - b) 4 km/hr
 - c) 5 km/hr
 - d) 6 km/hr
 - e) 7 km/hr
18. A school has only 3 classes which contain 40, 50 and 60 students respectively. The pass percentage of these classes are 10, 20 and 10 respectively. The pass percentage of the school is :
 - a) $13\frac{1}{3}$
 - b) 15
 - c) $16\frac{2}{3}$
 - d) 20
 - e) 18
19. A fraction which bears the same ratio to $\frac{1}{27}$ that $\frac{3}{11}$ does to $\frac{5}{9}$ is :
 - a) $\frac{1}{55}$
 - b) 55
 - c) $\frac{1}{11}$
 - d) $\frac{3}{11}$
 - e) 45

- 20.** The average age of 25 students is 10 years. If the teacher's age is also included, the average age increases by one year. The age of the teacher is :
- 26 years
 - 36 years
 - 46 years
 - 25 years
 - 35 years
- 21.** A student has to secure 40% marks to pass. He gets 178 and fails by 22 marks. The maximum marks are :
- 450
 - 500
 - 520
 - 600
 - 623
- 22.** The sum of three numbers is 98. If the ratio of the first to the second is 2 : 3 and that of second to the third is 5 : 8, then the second number is :
- 20
 - 30
 - 48
 - 58
 - 38
- 23.** 300 gms. of sugar solution has 40% sugar in it. How much sugar should be added to make it 50% in the solution ?
- 10 gms
 - 40 gms
 - 60 gms
 - 80 gms
 - 25 gms
- 24.** If x and y are connected by a relation $x^2 + 4y^2 = 4xy$ then the ratio of x to y is :
- 2 : 1
 - 1 : 2
 - 1 : 1
 - 1 : 4
 - 2 : 4
- 25.** The area of the floor of a room is 713 sq.m. and of two shorter walls together 782 sq. m. Find the breadth of the room
- 31 m
 - 23 m
 - 17 m
 - 24 m
 - None of these
- 26.** A alone can do a work in 12 days. A and B together finished work and got Rs.54 and Rs.18 respectively. In how many days was the work finished?
- 12 days
 - 14 days
 - 9 days
 - 10 days
 - 8 days
- 27.** If the income tax is increased by 19% the net income is reduced by 1%. What is the rate of income tax?
- 6%
 - 4%
 - 5%
 - 7.2 %
 - 8%
- 28.** A labourer was engaged on the condition that he will be paid Rs.2.50 for every day, he works and for every day, he is absent he will be fined Re.1. He received Rs.47 for the month of September. Find the number of days he was absent.
- 8 days
 - 10 days
 - 7 days
 - 12 days
 - 9 days
- 29.** A path 7 m wide has been constructed outside a circular garden of the diameter 252 m. Find the area of path.
- 5000 sq. m
 - 4250 sq.m
 - 5698 sq. m
 - 6250 sq.m
 - 6548 sq. m
- 30.** The population of the town is 35000. If the no. of men increases by 6% and number of women increases by 4% the population after one year will be 36760. Find the no. of men in the town.
- 20,000
 - 18,000
 - 25,000
 - 23,460
 - 21,000
- 31.** A man bought some goods for Rs.1800. He sold $\frac{1}{3}$ of the goods at a loss of 20%. At what % of profit should he sell the rest of the goods so that he gets profit of 10% in the total transaction ?
- 20%
 - 32%
 - 25%
 - 23.8%
 - 21%
- 32.** Seven times a two digit number is equal to 4 times the number formed by reversing the digits. The sum of digits of the number is 3. Find the no.
- 21
 - 12
 - 46
 - 36
 - None of these

- 33.** The average temperature from 9th January to 16th January (including both days) was 11.6°C and the average temperature from 10th January to 17th was 12.2°C . If the temperature on 9th January was 10.8°C , what was the temperature on 17th January?
- a) 16°C b) 15°C
 c) 14.5°C d) 15.6°C
 e) 17°C
- 34.** A man bought a car for Rs.32,500 and sold it for Rs.35,700 at a credit of 6 months. If the rate of interest is 4% p.a., find his gain.
- a) 10% b) 6%
 c) $7\frac{9}{13}\%$ d) 12%
 e) 9%
- 35.** A dishonest shopkeeper professes to sell his goods at cost price, but still gains $11\frac{1}{9}\%$ on his outlay. What weight does he substitute for a kilogram?
- a) 900 gms b) 850 gms
 c) 930 gms d) 870 gms
 e) 910 gms
- 36.** The ratio of annual incomes of A and B is 5 : 3, and the ratio of annual expenditures is 7 : 4. If each saves Rs.3000 per year, find the income of A.
- a) Rs.45,000 b) Rs.27,000
 c) Rs.35,450 d) Rs.28,000
 e) Rs.24,504
- 37.** A man sold Rs.2250 of 3% stock at Rs.93 and invested the sale proceed in 6% stock at Rs.108. Find the change in his income.
- a) Rs.48.75 Increase
 b) Rs.45 Decrease
 c) Rs.52 Decrease
 d) Rs.46.50 Increase
 e) Rs.51.50 Increase
- 38.** In what ratio the tea costing Rs.7 per kg must be mixed with tea costing Rs.4.50 per kg so that after selling the mixture at the rate of Rs.10 per kg, the profit is 50%?
- a) 5 : 7 b) 7 : 5
 c) 13 : 2 d) 4 : 5
 e) 11 : 2
- 39.** Simplify: $\frac{11^n \cdot 11 - 11^n \cdot 11^{-1}}{11^n \cdot 11^{-1} - 11^n \cdot 11^{-2}}$
- a) 132 b) 120
 c) 145 d) 128
 e) None of these
- 40.** If 31% students failed in an examination and the number of students who passed is 247 more than the number of students who failed, find the number of students who appeared for the exam?
- a) 700 b) 580
 c) 650 d) 490
 e) 410
- 41.** The product of two numbers is 4800 and their H.C.F. is 20. How many such pairs of nos. can be possible?
- a) 1 b) 3
 c) 2 d) 4
 e) 6
- 42.** Find the smallest number which when divided in by 24, 36, 45 leaves the remainder 5.
- a) 725 b) 77
 c) 185 d) 365
 e) 93
- 43.** A contractor undertook to finish a job in 150 days and employed 200 men. After 50 days he found that only $\frac{1}{4}$ of work was finished. How many extra days are needed if he employs 50 men more?
- a) 20 b) 25
 c) 30 d) 35
 e) 45
- 44.** If 4 men earn the same money as 5 women earn and 3 women earn equal to the earning of 4 boys. If 6 boys earn Rs.270 daily, find the earning of a man for a day.
- a) Rs.75 b) Rs.60
 c) Rs.50 d) Rs.45
 e) Rs.40
- 45.** Find the smallest number which when divided by 7, 10, 15 leaves remainders 5, 8, 13 respectively

- a) 418
- b) 136
- c) 58
- d) 208
- e) 71

Directions (Qs.46-50) : The following table shows the production of cars in a company from 1975 to 1980. Study it carefully and answer the questions given below it.

Year	1975	1976	1977	1978	1979	1980
A	16	10	14	12	12	14
B	8	20	16	17	21	6
C	4	6	10	16	20	31
D	21	17	16	15	13	8
E	25	18	19	30	14	27
TOTAL	74	71	75	90	80	86

46. In which year, the total production of all types of cars taken together was approximately equal to the average of the total production during the period 1975-80?

- a) 1975
- b) 1977
- c) 1979
- d) 1980
- e) 1976

47. There was a continuous decrease in production of cars of which of the following types during the period 1975-80?

- a) A
- b) B
- c) C
- d) D
- e) E

48. In which year, the total production of cars of types A and B together was equal to the total production of cars of types C and D together?

- a) 1975
- b) 1976
- c) 1977
- d) 1978
- e) None of these

49. The production of which of the following types of cars was 25% of the total production of all the types produced during the year 1979?

- a) B
- b) A
- c) D
- d) C
- e) E

50. The per cent increase in total production of all types of cars in 1978 to that in 1977 was :

- a) 18
- b) 20
- c) 25
- d) 36
- e) 19

PROBATIONARY OFFICERS' FOR ASSOCIATE BANKS OF S.B.I. EXAM. HELD IN NOVEMBER, 1995

TEST OF REASONING

Directions (Qs. 1-4) : In each question below, there are some statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

Statements :

1. Some newspapers are radios.
Some radios are televisions.
No television is a magazine.

Conclusions :

- I. No newspaper is a magazine.
- II. No radio is a magazine.
- III. Some radios are not magazines.
- IV. Some newspapers are television.

- a) None
- b) Only III
- c) Either I or II only
- d) Both I and II only
- e) None of these

Statements :

2. All crooks are simple.
Some simple are intelligent.
All intelligent are fools.

Conclusions :

- I. Some fools are crooks.
- II. No fool is a crook.

- III. Some simple are fools.
 - IV. All intelligent are simple.
- a) None
 - b) Either I or II only
 - c) III and IV only
 - d) Either I or II and III only
 - e) I and II and Either III or IV only

Statements :

3. Some birds are insects.
All birds are butterflies.
All insects are snakes.

Conclusions :

- I. Some snakes are birds.
- II. Some butterflies are insects.
- III. Some snakes are butterflies.
- IV. Some insects are birds.

- a) None
- b) All
- c) Only IV
- d) Either I or III only
- e) None of these

Statements :

4. All apples are brinjals.
All brinjals are ladyfingers.
Some ladyfingers are oranges.

Conclusions :

- I. Some oranges are brinjals.
- II. All brinjals are apples.
- III. Some apples are oranges.
- IV. All ladyfingers are apples.

- a) None
- b) Either I or III only
- c) All
- d) Only I and III
- e) None of these

Directions : (Qs. 5-7) are based on the following series of signals (figures, letters & signs) :

A B @ * \$ d 1 2 f G h 9

Z u V n M N Q O ? £ & 8

5. If the first-half part in the above series is written in reverse order, then which signal will be the eleventh to the left of the 21st signal counted from left?

- a) G b) h
- c) * d) @
- e) None of these

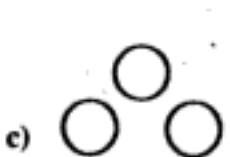
6. Out of the five alternatives given below, four are similar on the basis of their positions in the above series and thus form a group. Which one does not belong to that group?

- a) * 1 G b) d @ f
- c) 2 \$ B d) V N ?
- e) N ? 8

7. In the following series, what should come in place of the question mark?

- 1nf 2NO fOM ? h82
- a) G & Z b) G £ 9
 - c) 3 & Z d) G ? Z
 - e) None of these

Directions : (Qs. 8-11) : Each of these questions below contains three groups of things. You are to choose from the following five numbered diagrams, the diagram that depicts the correct relationship among the three groups of things in each questions.



e)



8. Tables, Chairs, Furniture

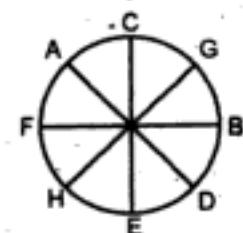
9. Dogs, Pets, Cats

10. Tie, Shirt, Pantaloons

11. Brinjal, Meat, Vegetables

Directions (Qs. 12-13) : Read the following information and answer the questions 12 and 13 based on it :

Eight friends, A, B, C, D, E, F, G and H are sitting in a circle facing the centre. B is sitting between G and D. H is third to the left of B and second to the right of A. C is sitting between A and G and B & E are not sitting opposite of each other.



12. Who is third to the left of D?

- a) F b) E
- c) A d) Cannot be determined
- e) None of these

13. Which of the following statements is not correct?

- a) D and A are sitting opposite of each other.
- b) C is third to the right of D.
- c) E is sitting between F and D.
- d) A is sitting between C and F.
- e) E and C are sitting opposite of each other.

14. "The journalists who indulge in yellow journalism should be put behind the bar".

Which of the following would be the strongest argument against this suggestion ?

- a) There is bound to be a strong opposition from press.
b) Why only journalists? What about politicians?
c) We should concentrate on other major issues of national importance.
d) Yellow journalism is nothing but little essential spice added to actual happenings around us.
e) It will be a very harsh treatment for the creative persons.
15. Out of the five alternatives given below, four are similar in a certain way and thus form a group. Which one of the following does not belong to that group?
- a) X-Ray b) Telephone
c) Computer d) Radio
e) Television
- Directions (Qs. 16-17) : Study the following information and answer questions 16 and 17 based on it :**
- (i) Seven books are placed one above the other in a particular way.
(ii) History book is placed exactly above Civics book.
(iii) Geography book is fourth from the bottom and English book is fifth from the top.
(iv) There are two books in between Civics and Economics books.
16. Out of the following, which three books are kept above English book? To answer this question, which of the following alternatives if any, is required?
- a) There are two books between English and History.
b) The Economics book is between English and Science books.
c) The Science book is placed at the top.
d) The Geography book is above English.
e) No other information is required.
17. How many books are there between Civics and Science books? To answer this question, which other extra information is required, if any, from the following?
- a) There are two books between Mathematics and Geography books.
b) There are two books between Geography and Science books.
c) The Civics book is before two books above Economics book.
d) There is one book between English and Science.
e) No other information is required.
18. During 1930s, there were very few poultry farms and now the number has increased substantially. Each of the following statements, if true, could explain this, EXCEPT
- a) There are many vocational courses on poultry.
b) The demand for poultry products has increased.
c) More and more people are turning to vegetarianism.
d) Banks provide loans for setting up poultry farms.
e) There are co-operatives marketing poultry products.

Directions (Qs. 19-23) : We come across many funny incidents related to different walks of life. One of the features of the funny incidents is the punch line or a climax - which gives the incident a sudden transformation or twist (into something not expected). It is this punch line which makes the incident funny.

In each of the following questions an incident is described but the punch line is missing - indicated by dotted lines. After the incident two statements numbered I and II are given. Considering the incident, you have to decide which of the two statements fits as punch lines.

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though not "definitely false" in the light of the facts given and mark answer (e) if the inference is "definitely false", i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts.

In the context of computers, the hardware specialities like the tendency of research connected with human factors, the design of the workstations, key boards, visual display, etc. are being concentrated, though the literature connected with interface and software problems has recently been on the increase. There are two reasons for it. The first reason in the light of the increasing power of computers is that the designers have got an opportunity to select and organise that technique which the user follows in communicating the message. The second is that the human factors research organisations have deviated from physical specialities of self improving work-system and gone to the psychological dimensions of the man-machine interaction.

24. The human factors research organisations do not help in designing the software system. They help only in the evaluation or ultimate production.
25. There has been a systematic progress in the basic computer technique.
26. The physical specialities of work area are less important than their psychological dimensions.
27. In the field of computers, a change has taken place in the approach of the human factors research organisations.
28. How the user communicates message through computer hardware, is supposed to be the hardware area of human research.
29. The human research organisations, in the field of computers, had been started two decades ago.
30. The tools and methods of human research organisations have also undergone a change.

Directions (Qs. 31-35) : In making decisions about important questions it is desirable to distinguish between 'Strong' arguments and 'weak' arguments. A 'strong' argument must be both important and directly related to the question. A 'weak' argument may not be directly related to the question and may be of minor importance or may be related to the

trivial aspects of the question. Each question below is followed by two arguments numbered I and II. You have to decide which of the arguments is 'strong' and which is 'weak'. Give answer (a) if only argument I is strong; give answer (b) if only argument II is strong; give answer (c) if either I or II is strong; give answer (d) if neither I nor II is strong and give answer (e) if both I and II are strong.

31. Should the government levy tax on agricultural income also?
 - I. Yes. That is the only way to fill government coffers.
 - II. No. Eighty percent of our population live in rural areas.
32. Should public holidays be declared on the demise of important national leaders?
 - I. No. Scheduled holidays hamper national progress.
 - II. Yes. People would like to pay their homage to the departed soul.
33. Should we impart sex education in schools?
 - I. Yes. All the progressive nations do so.
 - II. No. We cannot impart it in coeducational schools.
34. Should there be a ban on product advertising?
 - I. No. It is an age of advertising. Unless your advertisement is better than your competitors, the product will not be sold.

17. c	18. a	19. a	20. b	21. b	22. b	23. c	24. a
25. b	26. c	27. c	28. a	29. c	30. b	31. c	32. b
33. d	34. c	35. a	36. a	37. a	38. c	39. a	40. c
41. b	42. d	43. a	44. a	45. d	46. c	47. d	48. e
49. d	50. b						

Test of Reasoning

1. e	2. d	3. b	4. a	5. d	6. b	7. e	8. d
9. d	10. c	11. e	12. a	13. c	14. a	15. a	16. e
17. d	18. c	19. b	20. c	21. a	22. b	23. a	24. b
25. c	26. d	27. a	28. d	29. c	30. a	31. b	32. a
33. d	34. e	35. e	36. d	37. e	38. a	39. e	40. d
41. d	42. e	43. a	44. b	45. c	46. c	47. b	48. b
49. b	50. e						

EXPLANATORY NOTES (1995)

English

6. 1. While the boy was playing hockey he got his leg badly injured.
 2. While playing hockey , the boy got his leg badly injured.
- Hence 1 and 2.
- ∴ (d) is the answer.
7. 1. With the apprehension of arson and looting the shop keepers closed the shops.
 1 is right.
- ∴ (a) is the answer.
8. You cannot begin your answer with any one of these beginnings.
- ∴ (e) is the answer.
9. 2. The cordial behaviour of all his family members is conducive to all - round development.
- ∴ (b) is the answer.
10. 1. As soon as the barking dog saw the watchman wave his cane, it ran away.
 3. No sooner did the watchman wave his cane, than the barking dog ran away.
- ∴ (c) is the answer.

Quantitative Aptitude

- 1.(c) Let P be the population 3 years ago

As there is 5% of annual increase, it is a case of Compound Interest.

$$\therefore 185220 = P \left(1 + \frac{5}{100}\right)^3$$

$$= P \left(\frac{21}{20}\right)^3$$

$$\therefore P = 185220 \times \frac{20}{21} \times \frac{20}{21} \times \frac{20}{21}$$

$$= 1,60,000$$

- 2.(a) Pencils : pens : books = 10 : 2 : 3

$$\text{If the no of pencils} = 10x = 120$$

$$\text{then } x = 12$$

$$\text{No. of books} = 3x = 36$$

3.(a) 6th observation = total of 11 observations
 - (the total of the 1st 5 observations + total of the last 5 observations)

$$= 11 \times 60 - (5 \times 58 + 5 \times 56)$$

$$= 90$$

- 4.(b) If the rural population = 65%

$$\text{Urban population} = 35\%$$

This is the case with every group.

∴ U.P. in 36-45 age group and above

$$= 35\% \text{ of } \{14.50 + 14.25 + 5.12 + 1.13\}$$

$$= \frac{35 \times 35}{100}$$

$$= \frac{1225}{100} = 12.25$$

5.(a) Total population in 1982 = 650 million.

People in the age group 26–35 = 17.25%

$$= 650 \times \frac{17.25}{100} = \frac{13 \times 17.25}{2}$$

$$\text{Males among these} = \frac{1000}{1950} \times \frac{13 \times 17.25}{2}$$

$$= 57.5 \text{ million.}$$

6.(a) If the difference between the age groups 16-25 & 46-55 = $17.75 - 14.25 = 3.5\% = 14$ millions.

$$\text{Total Population} = \frac{14 \times 100}{3.5} = 400 \text{ millions}$$

7.(b) People in and above 56-65 age group = $6.25\% = 20$ millions

Difference between the two age groups in percentage = $17.75 - 14.25$

$$= 3.5$$

$$= \frac{20 \times 3.5}{6.25} = 11.20 \text{ m}$$

8.(c) Below 36 yrs = $30 + 17.75 + 17.75 = 65\%$

Total population

$$= \frac{200 \times 100}{65} = \frac{4000}{13} \text{ million.}$$

People in the age group of 46–55 = 14.25%

$$= \frac{4000}{13} \times \frac{14.25}{100} = 43.85 \text{ million.}$$

10. (a) If the exports in 83-84 was 100, it would be 125 in 84-85.

But in 84-85 it was 161.78

\therefore In 1983 - 84, it was

$$= \frac{161.78 \times 100}{125}$$

$$= \frac{647.12}{5} = 129.42$$

11. (b) In 84-85 : 161.78

$$86-87 : \frac{101.38}{60.40}$$

It is less by $\frac{60.40}{161.78} \times 100 = 37\%$

14. (b) Average age of 40 students = 15 yrs.

When 10 new students are admitted the increase in the average of $(40 + 10)/50$ students = .2 yrs

$$\text{Total age} = 50 \times 15.2 = 760 \text{ yrs.}$$

The average age of 10 boys

$$= \frac{\text{Total of 50 boys} - \text{Total of 40 boys}}{10}$$

$$= \frac{760 - 600}{10} = 16$$

15. (c) Prices of Scooter : TV = 5 : 4

\therefore Cost of TV be 4x, cost of scooter be 5x

Difference = x = Rs. 4000

$$\text{Cost of TV} = 4x = 4 \times 4000 = \text{Rs. } 16,000$$

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The total weight = $300 + x$

Sugar Content = 50%

$$= \frac{(300 + x) \times 50}{100} = \frac{300 + x}{2}$$

$$\therefore \frac{300 + x}{2} = 120 + x$$

$$300 + x = 240 + 2x$$

$$x = 60 \text{ gms}$$

24. (a) $x^2 + 4y^2 = 4xy$

$$\therefore x^2 - 4xy + 4y^2 = 0$$

$$(x - 2y)^2 = 0$$

$$x = 2y$$

$$\text{or } x:y = 2:1$$

25. (b) Area of the floor = $l \times b = 713$ (1)

Area of the two shorter walls = $2bh$

$$= 782$$

$$\therefore bh = 391 \text{ (2)}$$

(1) & (2) have b as the Common factor.
Finding the H.C.F. of the two nos. we get $b = 23$.

26. (c) As the capacities of A & B are not given we assume that they are of equal capacity.
A can do the work in 12 days.

Working along with B, he has received Rs. 54.

and B has received Rs. 18

If B has not joined him, he would have taken 12 days and the additional amount of Rs. 18 also.

i.e. he would have received $54 + 18$

= 72 Rs.

and the no. of days he takes is 12

$$\therefore \text{His wages for 1 day} = \frac{72}{12} = \text{Rs. 6}$$

But he received Rs. 54 when B is with him

\therefore Rs. 54 is the wages for 9 days.

\therefore A & B working together completed it in 9 days.

27. (c) Let Rs. 100 be the income & $x\%$ be the tax.

$$\text{Net income} = (100 - x) \text{ Rs.}$$

If tax is increased by 19%, rate of tax

$$= x + \frac{x \times 19}{100} = \frac{119x}{100} \text{ Rs.}$$

$$\text{Net income} : 100 - \frac{119x}{100}$$

$$= \frac{10000 - 119x}{100}$$

Loss in Net income =

$$100 - x - \left[\frac{10000 - 119x}{100} \right]$$

$$= \frac{19x}{100}$$

This is 1% of the net income

$$= \frac{\frac{19x}{100}}{100-x} = \frac{1}{100}$$

$$100 - x = 19x$$

$$x = 5\%$$

Note : Here differences in taxes is the differences in net income also

$(\frac{119x}{100} - x = \frac{19x}{100})$. Hence instead of finding the next incomes and their differences, we can as well find the difference in taxes.

28. (a) September has 30 days

Suppose he worked for x days

$$\text{Wages for } x \text{ days} = x \times 2\frac{1}{2} = \frac{5}{2}x \text{ Rs.}$$

Less penalty for $(30 - x)$ days @ 1 Re. per day

$$\therefore \text{His net Salary} = \frac{5}{2}x - \{(30 - x) \times 1\}$$

$$= \frac{5}{2}x - 30 + x = \frac{7x}{2} - 30 = 47$$

$$\therefore \frac{7x}{2} = 77$$

$$x = \frac{77 \times 2}{7} = 22$$

He was absent for $30 - 22 = 8$ days

29 (e) Diameter of the garden = 252 m

Its radius = $126 = r$ (say)

Width of the path = 7 m

Radius of the Outer Circle $R = 126 + 7 = 133$

Area of the path = $\pi(R + r)(R - r)$

$$= \frac{22}{7}(133 + 126)(133 - 126)$$

$$= \frac{22}{7} \times 259 \times 7$$

$$= 5698 \text{ m}^2$$

30 (b) Let men be x , women be y .

$$\text{Then } x + y = 35000 \quad (1)$$

Increase in men + increase in women

$$= x \times \frac{6}{100} + y \times \frac{4}{100} = \frac{6x}{100} + \frac{4y}{100}$$

$$\text{But the increase} = 36760 - 35000 = 1760$$

$$\therefore \frac{6x}{100} + \frac{4y}{100} = 1760$$

$$6x + 4y = 176000 \quad (2)$$

$$(1) \times (4) : 4x + 4y = 140000$$

$$x = 18000$$

31. (c) CP = Rs. 1800.

Total profit he should get = 10%

$$= \frac{1800 \times 10}{100} = \text{Rs. 180}$$

$$\text{SP} = 1800 + 180 = \text{Rs. 1980}$$

On $\frac{1}{3}$ of the goods he got a loss of 20%

$$= (\frac{1}{3} \times 1800) \times \frac{20}{100}$$

$$= \frac{600 \times 20}{100} = 120$$

$$\text{SP of } \frac{1}{3} \text{ goods} ; = 600 - 120 = \text{Rs. 480}$$

CP of Remaining goods : $1800 - 600$

$$= \text{Rs. 1200}$$

The sale price of these goods = $1980 - 480$

$$= 1500$$

$$\text{Profit} = 1500 - 1200 = 300$$

$$= \frac{300}{1200} \times 100$$

$$= 25 \text{ or } 25\%$$

32. (b) Let x be in the 10s place & y in the units place.

$$\text{Then the value of the no.} = 10x + y$$

If the digits are interchanged the values is
 $x + 10y$.

$$\text{But } 7(10x + y) = 4(x + 10y)$$

$$70x + 7y = 4x + 40y$$

$$66x = 33y$$

$$2x = y$$

$$\text{Also } x + y = 3$$

$$\text{Solving we get } x = 1, y = 2$$

and the no. is 12

Note : Instead of working all this, you can start from the fact that the sum of the digits = 3

Evidently there is only 1 possibility.

$$\therefore 3 = 1 + 2$$

\therefore 7 times the original = 4 times the new

\therefore Original one is smaller i.e., 12 is No..

33. (d) Total temp. from 9th to 17th = total temp. from 10th to 17th + temp. on the 9th

$$= 12.2 \times 8 + 10.8 = 108.4$$

Total temp. from 9th to 16th = $11.6 \times 8 = 92.8$

$$\text{Temp on 17th} = 108.4 - 92.8 = 15.6^{\circ}\text{C}$$

34. (c) C.P. of the car = Rs. 32,500.

He will be getting Rs. 35,700 after 6 months at 4%

i.e., if his Principal = P, then A

$$= \text{Rs. } 35,700$$

$$\therefore 35700 = P \left(1 + \frac{1}{2} \times \frac{4}{100}\right) = \frac{51}{50} P$$

$$P = \frac{35700 \times 50}{51} = 35000$$

i.e., getting Rs. 35700 after 6 months is the same as that getting Rs. 35000 now.

$$\therefore \text{Profit} = \text{Rs. } 2500$$

$$= \frac{2500}{32500} \times 100 = \frac{100}{13} = 7\frac{9}{13}$$

35. (a) He is getting a profit of $11\frac{1}{9}\%$

If his C.P. is 100, S.P. is $111\frac{1}{9}$ Rs.

If his S.P. is $111\frac{1}{9}$ C.P. is 100 Rs.

$$100 \quad ?$$

$$\frac{100 \times 100 \times 9}{1000} = 90$$

i.e., 90 Rs. worth goods he is selling for Rs. 100 thus making a profit of $11\frac{1}{9}\%$ or in other words 900 gm wrong wt is used for selling 1000 gm. real weight.

Suresh's P.O. (Q & A)

36. (a) A : B (income) = 5 : 3

i.e., Rs. 5x, Rs. 3x say

Investment Income

108 6

(Expenses) = 7 : 4 i.e., Rs. 7y, 4y (say)

$\frac{93 \times 45}{2}$?

A saves : $5x - 7y$

$\frac{6 \times 93 \times 45}{2} \times \frac{1}{108}$

B saves $3x - 4y$

$= \frac{465}{4} = \text{Rs. } 116\frac{1}{4}$

∴ $5x - 7y = 3x - 4y = 3000$

From the 1st two equations There is an increase of income of Rs. 48.75

$5x - 7y = 3x - 4y$

38. (c) If S.P. = Rs. 10 at a profit of 50 %

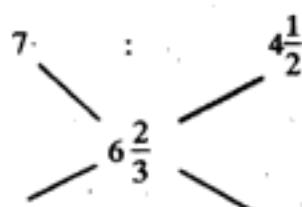
$3y = 2x$

C.P. = $\frac{10 \times 100}{150} = \frac{20}{3} = 6\frac{2}{3}\text{Rs.}$

$y = \frac{2}{3}x$

Originals mix :

$5x - 7y = 3000$



$$5x - \frac{7 \times 2}{3}x = 3000$$

$$(6\frac{2}{3} - 4\frac{1}{2}) : (7 - 6\frac{2}{3})$$

$$\frac{1}{3}x = 3000$$

$$x = 9000$$

$$\text{New mix: } (6\frac{2}{3} - 4\frac{1}{2}) : (7 - 6\frac{2}{3})$$

A's income = $5x = \text{Rs. } 45000$

$$= 13 : 2$$

37. (a) Stock Income

100

3

2250

?

$$\frac{3 \times 2250}{100} = \text{Rs. } 67.50$$

$$39. (\text{a}) \frac{11^n \cdot 11 - 11^n \cdot 11^{-1}}{11^n \cdot 11^{-1} - 11^n \cdot 11^{-2}}$$

Stock

S.P.

$$\frac{11^{n+1} - 11^{n-1}}{11^{n-1} - 11^{n-2}}$$

100

93

2250

?

$$\frac{93 \times 2250}{100} = \frac{93 \times 45}{2}$$

$$\frac{11^{n-1} [11^2 - 1]}{11^{n-2} [11 - 1]} = 11 \times 12 = 132$$

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Hence we find the L.C.M. of 7,10,15

Which is 210.

∴ The required no. is $210 - [2] = 208$

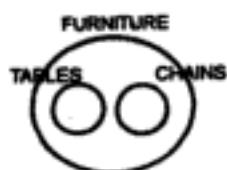
Note : If two or more such numbers are needed : 208, 418, 628,

Evidently these are in A.P. whose a is the required answer when only 1 no is needed & c.d. = L.C.M.

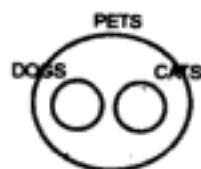
Test of Reasoning

5. (d) 9 h G f 2 1 d \$ * @ B A
[Reverse order of the I part]
Z u V n M N Q O ? f & 8

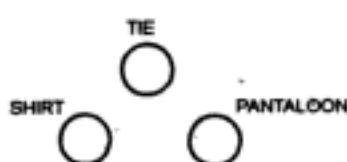
8. (d)



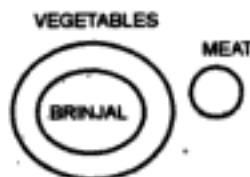
9. (d)



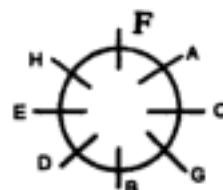
10. (c)



11. (e)



12. (a) Eight friends are sitting in this way



8 friends are sitting in this way

41-45

Name	Profession	Links
Mohan	C.A.	Green
Savitha	?	White
Deepak	Engineer	Red
Mohini	Teacher	Orange
Nanu [G.D]	Doctor	Blue
Titu [G.S]	Principal	Black

46. (c) 12, 19, 21, 3, 25 18, 35, 20, 22 21

45, 46, 47, 8, 9, 50, 52, 54, 55 56

- 47 (b) No. of letters between

S-Q S-N Q-N E-A

1(E)	4 (E, Q, U, E)	2 (U, E)	3 (N, T, I) (In the word Sequential)
1(R)	4 (O,P,Q,R)	2(O,P)	3 (B, C, D) (In alphabet)

**PROBATIONARY OFFICERS' (B.S.R.B., BANGALORE) EXAM.
HELD IN MARCH, 1996**

GENERAL AWARENESS

1. The 'Jain Commission' set up by the Union Government is dealing with which of the following issues?
 - a) Cauvery water dispute between Karnataka and Tamil Nadu
 - b) Multicrore securities scam
 - c) Multicrore hawala racket involving several Ministers
 - d) Conspiracy aspect of former Prime Minister Rajiv Gandhi's assassination
 - e) Conspiracy aspect of the Bombay Bomb blast
2. The steel production during the Current Finance year (1995-96) is expected to be how many million tonnes?
 - a) 5
 - b) 45
 - c) 15
 - d) 50
 - e) None of these
3. Hansa-2, which was in news recently, is the name of -
 - a) a satellite
 - b) a trainer aircraft
 - c) a submarine
 - d) a surface to surface missile
 - e) none of the above
4. Which of the following food items is not a source of Vitamin C ?
 - a) Potato
 - b) Mango
 - c) Fish
 - d) Carrot
 - e) Orange
5. The 28 inches silver trophy of the Wills World Cup Cricket 1996, is made in which country ?
 - a) Australia
 - b) India
 - c) England
 - d) Pakistan
 - e) None of these
6. Who among the following won the Bharathiya Jnanpith Award for the year 1995?
 - a) O.N.V. Kurup
 - b) Shivaji Sawant
 - c) M.T. Vasudevan Nair
 - d) Sitakanta Mohapatra
 - e) None of these
7. India participated in the International Advertising Festival for the year 1995 held at Cannes with 45 entries. How many awards did India win?
 - a) Two
 - b) Four
 - c) Six
 - d) Eight
 - e) None of these
8. Which of the following statements is correct with regard to, the settlement of dispute between Karnataka and Tamil Nadu, as per the order of Cauvery Water Disputes Tribunal?
 - a) Karnataka and Tamil Nadu to share the water equally
 - b) Karnataka and Tamil Nadu to share the water in the ratio of 75% : 25%
 - c) Tamil Nadu to release immediately 9 tmc ft. of water to Karnataka
 - d) Karnataka to release immediately 11 tmc ft. of water to Tamil Nadu
 - e) None of these
9. The purity of milk can be measured by which of the following?
 - a) Pyrometer
 - b) Salinometer
 - c) Lactometer
 - d) Calorimeter
 - e) None of these
10. Who among the following won the Women's singles of the Australian Open Tennis Championship recently held at Melbourne?
 - a) Steffi Graf
 - b) Chris Evert
 - c) Martina Navratilova
 - d) Monica Seles
 - e) None of these

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- 22.** Which of the following hotels won the "Best First Class Business Hotel" award for the year 1995, instituted by the popular magazine, *Hotel and Food Service Review* ?
- Oberoi, Delhi
 - Hans Plaza, Delhi
 - Chola Sheraton, Madras
 - Maurya Sheraton, Bangalore
 - None of these
- 23.** The study of written records and their authenticity is known as
- Phrenology
 - Cytology
 - Chronology
 - Lexicography
 - Philology
- 24.** "Westerner" which was in news recently, is the name of -
- the first colour xerox machine in the World
 - the largest floating dock in India providing ship repair facilities
 - the first floating hotel in India stationed in Hooghly river at Calcutta
 - the largest selling computer in the World
 - the largest selling brand of cellular phones in U.S.A.
- 25.** Mr. Fernando Cardoso, who during his official visit to India had signed four agreements relating to bilateral economic co-operation with India, is the President of which of the following countries?
- Tanzania
 - Mauritius
 - Brazil
 - Canada
 - None of these
- 26.** A new software named 'LEAP' was recently developed by the Centre for Development of Advanced Computing, Pune. This facilitates
- quick processing of examination results of a huge number
 - full computerisation of library operations
 - desktop publishing and word processing in many Indian languages
- 27.** As per a recent Planning Commission report (figure for the year 1993 - 94), approximately what percentage of people live below the poverty line ?
- 10%
 - 14%
 - 19%
 - 25%
 - 31%
- 28.** Mr. O.P. Sodhani Committee was recently set up to suggest reforms in the policy framework in which of the following sectors ?
- Agriculture & Food Processing
 - Insurance
 - Small and Medium Industries / enterprises
 - Banking
 - None of these
- 29.** Which of the following is the currency of Saudi Arabia?
- Dollar
 - Rial
 - Dinar
 - Kroner
 - None of these
- 30.** Who among the following is the Captain of the United Arab Emirates Cricket team which participated in the Wills World Cup, 1996 ?
- Saleem Raza
 - Mohd. Aslam
 - Sultan Zarawani
 - Saeed Al Saffar
 - None of the above
- 31.** Following a Supreme Court directive, the regular pay scales were fixed for which of the following categories of people?
- Sarpanches of Gram Panchayats
 - Watchmen in private establishments buildings
 - Imams of Mosques
 - Safaiwalas in Govt. Offices
 - None of the above

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- | | | | | |
|-------------------------|--|--------------------------------|---|----------------------------|
| 10. Ruminant (S) | a) Terminate
c) Ponder
e) Anticipate | b) Abscond
d) Concentrate | a) Postpone
c) Abandon
e) Tighten | b) Diminish
d) Increase |
| 11. Abate (O) | 12. Salubrious (S) | | | |
| | a) Benign
c) Tarnished
e) Essential | b) Unhealthy
d) Resourceful | | |

Directions (Qs. 13-25) : In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

To the curious and the ... (13) ..., the sea still presents the challenge of the unknown, for ignorance is still the ... (14) ... characteristic of man's relation to the sea. But now, more than ever, necessity ... (15) ... us onward in our exploration of the sea. We now have submarines capable of ... (16) ... submergence for many months ... (17) ... missiles capable of ... (18) ... many times greater than that ... (19) ... by World War II. For ... (20) ... reasons, therefore, we need ... (21) ... to learn more about the ... (22) ... of ocean bottom, about deep ocean currents, temperature, density and so on.

Another necessity ... (23) ... us to learn to master the sea. That necessity is food. The lives of two-third of the world's people are wholly ... (24) ... by that basic necessity; they are ... (25) ... by hunger and by the weakness and disease which hunger generates.

- | | | | |
|---|------------------------------|---|---------------------------------|
| 13. a) outgoing
c) formidable
e) intelligent | b) courageous
d) watchful | 18. a) expansion
c) projection
e) aggression | b) destruction
d) domination |
| 14. a) outstanding
c) valuable
e) distinguishing | b) remarkable
d) critical | 19. a) forced
c) experienced
e) wrought | b) witnessed
d) conceived |
| 15. a) projects
c) goads
e) makes | b) excites
d) propels | 20. a) traditional
c) deliberate
e) historical | b) academic
d) strategic |
| 16. a) provocative
c) deadly
e) steady | b) turbulent
d) durable | 21. a) urgently
c) judiciously
e) wilfully | b) drastically
d) cautiously |
| 17. a) guiding
c) providing
e) directing | b) subjecting
d) holding | 22. a) tenacity
c) topography
e) velocity | b) distribution
d) resources |

23. a) involves b) threatens
c) presses d) wants
e) provides
24. a) projected b) galvanised
c) dictated d) developed
e) challenged
25. a) oppressed b) salvaged
c) controlled d) governed
e) perturbed

Directions (Qs.26-33) : Each of the following questions contains a small paragraph followed by a question on it. Read each paragraph carefully and answer the question given below it.

26. To forgive an injury is often considered to be a sign of weakness; it is really a sign of strength. It is easy to allow oneself to be carried away by resentment and hate into an act of vengeance; but it takes a strong character to restrain those natural passions. The man who forgives an injury proves himself to be the superior of the man who wronged him and puts the wrong-doer to shame.

This paragraph best supports the statement that-

- a) a person with calm and composed nature has depth of thought and vision.
- b) people tend to forgive the things happened in the past.
- c) nature passions are difficult to suppress
- d) the sufferer alone knows the intensity of his sufferings
- e) mercy is the noblest form of revenge

27. The consumption of harmful drugs by the people can be prevented not only by banning their sale in the market but also by instructing users about their dangerous effects which they must understand for their safety. Also the drug addicts may be provided with proper medical facilities for their rehabilitation. This will help in scaling down the use of drugs.

The paragraph best supports the statement that consumption of harmful drugs-

- a) may be channelised through proper system
- b) can be eliminated with the help of banning their sale.
- c) are on increase in the society.
- d) are due to lack of medical facilities.
- e) can always be reduced.

28. The only true education comes through the stimulation of the child's powers by the demands of the social situations in which he finds himself. Through these demands he is stimulated to act as a member of a community, to emerge from his original narrowness of action and feeling, and to conceive himself from the standpoint of the welfare of the group to which he belongs.

The paragraph best supports the statement that real education-

- a) is not provided in our schools today.
- b) comes from the self-centred approach of the students.
- c) comes through the interaction with social situations.
- d) will take place if the children are physically strong.
- e) will take place if the children imbibe action and feeling.

29. One of the important humanitarian by-products of technology is the greater dignity and value that it imparts to human labour. In a highly industrialized society, there is no essential difference between Brahmin and Dalit, Muslim and Hindu; they are equally useful and hence equally valuable, for in the industrial society individual productivity fixes the size of the pay cheque and this fixes social status.

This paragraph best supports the statement that -

- a) there are numerous side-effects of technology
- b) labour force is treated well in modern day industries.

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- d) Since the holidays being started this beach becomes very crowded.
- e) As soon as holidays begin than this beach will become very crowded.
41. a) With regard to reading such a lot about him that I am looking forward to seeing him very much.
- b) I had read such a lot about him that I am looking forward to seeing him very much.
- c) Having read such a lot about him that I am looking forward to seeing him very much.
- d) I am reading such a lot about him that I will be looking forward to seeing him very much.
- e) I have read such a lot about him that I am looking forward to seeing him very much.
42. a) For many of us, our first recollection of the world is from the early age of only three or four years.
- b) For many of us, our first recollection of the world has been the early age of only three or four years.
- c) For many of us, our first recollection of the world being the early age of only three or four years.
- d) Our first recollection of the world, for many of us, would be early age of three or four years.
- e) The early age of three or four years, would begin our first recollection of the world, for many of us.
43. a) The managers can motivate people in tasks by getting them involved that needs to be done.
- b) Since managers can motivate people in the tasks that need to be done by getting them involved.
- c) People can be motivated by getting them involved in the tasks that need to be done by the managers.
- d) The managers not only do the tasks that need to be done by getting them involved but also can motivate people.
- e) The managers can motivate people by getting them involved in the tasks that need to be done.

Directions (Qs.44-50) : In each of the following questions part of the sentence is printed in bold. Five alternative meanings of the bold part of the sentence are given below the sentence. Mark as your answer the number of that alternative meaning which you think is correct.

44. **Some people have a habit of wearing their heart on their sleeve.**
- a) saying something which is not to be taken seriously.
- b) exposing their innermost feelings to others.
- c) avoiding being friendly with others.
- d) always trying to gain advantage over others.
- e) wasting their time on unnecessary details.
45. **I raked my brains to solve this difficult problem.**
- a) I read number of books
- b) I consulted several people
- c) I used my commonsense
- d) I subjected my mind to hard thinking
- e) I brainwashed several experts.
46. **He was a King who ruled his subjects with a high hand.**
- a) sympathetically
- b) kindly
- c) democratically

- d) conveniently
e) oppressively
47. It is a matter of gratification for me that he has turned a new leaf.
a) begun a different mode of life.
b) proved to be a worthy person on his job.
c) decided to use a different strategy to solve the problem.
d) accepted the new job that was offered to him.
e) started using his intelligence.
48. He is a plain, simple and sincere man, he will always call a spade a spade.
a) be outspoken in language.
b) help needy person.
c) stand by his friends and relatives.
- d) sacrifice his life for others.
e) put on a simple dress.
49. It was such a strange affair that I could not make head or tail of it.
a) tolerate it b) face it
c) remember it d) believe it
e) understand it
50. He is temporarily in charge of the company and is trying to feather his nest.
a) bring order and discipline in the company.
b) raise the image of the company.
c) act for his own future benefits.
d) diversify the products of the company.
e) practice his own brand of management philosophy.

**PROBATIONARY OFFICERS' (B.S.R.B., BARODA) EXAM.
HELD IN MARCH, 1996**

QUANTITATIVE APTITUDE

1. The circumferences of two concentric circles are 352 m and 264 m respectively. The difference between the radii of the circle is
 (use $\pi = \frac{22}{7}$)
 - a) 5 m
 - b) 7 m
 - c) 14 m
 - d) 44 m
 - e) None of these
2. The expression for the difference in area between a circle of radius r and an inscribed square is
 (use $\pi = \frac{22}{7}$)
 - a) $\frac{8r^2}{7}$
 - b) $\frac{22r^2}{7} - \sqrt{2}r^2$
 - c) $\frac{20}{7}r^2$
 - d) $\frac{18}{7}r^2$
 - e) $\frac{10}{7}r^2$
3. If the surface areas of two spheres are in the ratio of 4 : 25, then the ratio of their volumes is
 - a) 4 : 25
 - b) 25 : 4
 - c) 125 : 8
 - d) 8 : 125
 - e) None of these
4. A sphere and a cube have equal surface areas. The ratio of the volume of the sphere to that of the cube is
 - a) $\sqrt{\pi} : \sqrt{6}$
 - b) $\sqrt{2} : \sqrt{\pi}$
 - c) $\sqrt{\pi} : \sqrt{3}$
 - d) $\sqrt{6} : \sqrt{\pi}$
 - e) None of these
5. If the area of a rhombus is 15 cm^2 and the length of one of its diagonals is 5 cm, then the length of the other diagonal is
 - a) 3 cm
 - b) 5 cm
 - c) 6 cm
 - d) 7 cm
 - e) None of these
6. The diagonal of a square is 90 m. The area of the square (in m^2) is
 - a) 8100
 - b) 4050
 - c) $180\sqrt{2}$
 - d) $90\sqrt{2}$
 - e) None of these
7. A certain sum of money lent out at simple interest amounts Rs.690 in 3 years and Rs.750 in 5 years. The sum lent is
 - a) Rs.400
 - b) Rs.450
 - c) Rs.500
 - d) Rs.600
 - e) None of these
8. 20 men, working together, can complete a job in 20 days. The number of days that 25 men of the same capacity, working together, will take to finish the job is
 - a) 12
 - b) 16
 - c) 20
 - d) 25
 - e) 15
9. 14 pumps of equal capacity can fill a tank in 6 days. If the tank has to be filled in 4 days, the number of extra pumps needed is
 - a) 7
 - b) 14
 - c) 21
 - d) 28
 - e) 25
10. The average weight of 6 men decreases by 3 kg when one of them weighing 80 kg is replaced by a fresh man. The weight of the new man is
 - a) 56 kg
 - b) 58 kg
 - c) 62 kg
 - d) 76 kg
 - e) 35 kg
11. If a man walks at the rate of 5 km/hr he misses a train by only 7 minutes. However, if he walks at the rate of 6 km/hr, he reaches the station 5 minutes before the arrival of the train. The distance (in km) covered by him to reach the station is

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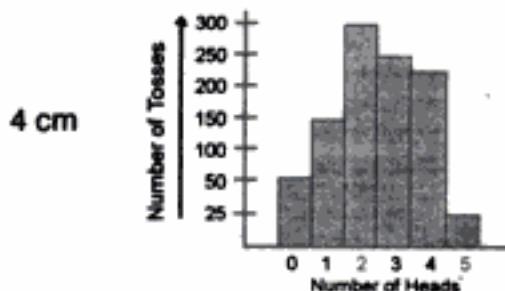
24. The unit's digit in the product $274 \times 318 \times 577 \times 313$ is
 a) 2 b) 3
 c) 4 d) 5
 e) 1
25. The square root of

$$\frac{0.325 \times 0.081 \times 4.624 \times 36}{1.5625 \times 0.0289 \times 72.9 \times 64}$$
 is
 a) 0.024 b) 0.21
 c) 2.40 d) 24.0
 e) None of these
26. $\frac{3}{4}$ of 68 is less than $\frac{2}{3}$ of 114 by
 a) 12 b) 25
 c) 35 d) 48
 e) None of these
27. The simplification of

$$7\frac{1}{2} - \left[2\frac{1}{4} + \left\{ 1\frac{1}{4} - \frac{1}{2} \left(1\frac{1}{2} - \frac{1}{3} - \frac{1}{6} \right) \right\} \right]$$
 yields
 a) $\frac{2}{9}$ b) $4\frac{1}{2}$
 c) $9\frac{1}{2}$ d) $1\frac{77}{228}$
 e) None of these
28. If the radius of a circle is doubled, how many times of the area of the original circle will it become now?
 a) Twice b) Three times
 c) Four times d) Eight times
 e) Nine times
29. A cylinder and a hemisphere stand on equal bases and have the same height. If the volume of the cylinder and the hemisphere be V_1 and V_2 respectively, then
 a) $V_1 = 2V_2$ b) $V_2 = 2V_1$
 c) $2V_1 = 3V_2$ d) $3V_1 = 2V_2$
 e) None of these
30. The area of a right triangle, whose base is 6 cm long and hypotenuse is 10 cm long is
 a) 24 cm^2 b) 30 cm^2
 c) 40 cm^2 d) 48 cm^2
 e) 20 cm^2
31. Two successive discounts of 20% and 15% are equal to a single discount of
 a) 35% b) 32%
 c) 22% d) 5%
 e) 14%
32. A cylindrical vessel 60 cm in diameter is partially filled with water. A sphere 30 cm. diameter is dropped into it. The increase in the level of water in the vessel (in cm) is
 a) 2 b) 3
 c) 4 d) 5
 e) 10
33. A dealer sold two of his cattles for Rs.500 each. On one of them he lost 10% and on the other he gained 10%. His gain or loss per cent in the entire transaction was
 a) 10% loss b) 1% gain
 c) 1% loss d) 2%
 e) Neither gain nor loss
34. A sum of money becomes 8 times of itself in 3 years at compound interest. The rate of interest is
 a) 100% b) 8%
 c) 1% d) 10%
 e) Data inadequate
35. A cistern can be filled in 9 hours, but it takes 10 hours when there is a leak in its bottom. If the cistern is full, then the time that the leak will take to empty it is
 a) 90 hours b) 80 hours
 c) 70 hours d) 60 hours
 e) 72 hours
36. A man bought a number of oranges at 3 for a rupee and an equal number at 2 for a rupee. At what price per dozen should he sell them to make a profit of 20%?
 a) Rs.4 b) Rs.5
 c) Rs.6 d) Rs.7
 e) Rs.3

37. A train 150 m long is running at a speed of 90 km/hr. Time taken by the train to cross a tree is
 a) 3 sec. b) 4 sec.
 c) 6 sec. d) 8 sec.
 e) 5 sec.
38. A dog takes 3 leaps for every 5 leaps of a hare. If one leap of the dog is equal to 3 leaps of the hare, the ratio of the speed of the dog to that of the hare is
 a) 8 : 5 b) 9 : 5
 c) 8 : 7 d) 9 : 7
 e) 7 : 9
39. The mean of $1^2, 2^2, 3^2, 4^2, 5^2, 6^2$ and 7^2 is
 a) 40 b) 20
 c) 30 d) 10
 e) 15
40. A number exceeds 50 by 20%. The new number obtained is
 a) 10 b) 20
 c) 40 d) 60
 e) 35
41. If $(4x^2 - 3y^2) : (2x^2 + 5y^2) = 12 : 19$, then $x : y$ is
 a) 2 : 3 b) 1 : 2
 c) 3 : 2 d) 4 : 5
 e) 3 : 8
42. A rectangular block 6 cm by 12 cm by 15 cm is cut up into exact number of equal cubes. The least possible number of cubes will be
 a) 6 b) 11
 c) 33 d) 40
 e) 25
43. Subtracting 40% of a number from the number, we get the result as 30. The number is
 a) 28 b) 50
 c) 52 d) 70
 e) 39
44. The number which when added 10 times of it to itself gives 264. The number is
 a) 20 b) 22
 c) 24 d) 26
 e) 28

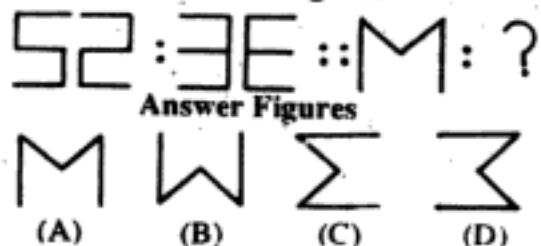
Directions (Qs. 45-48) : These questions refer to the following data : Five coins were tossed 1000 times and at each toss the number of heads was observed. The number of tosses during which 0, 1, 2, 3, 4 and 5 heads were obtained separately is shown in



45. The total number of tosses resulting in number of heads greater than 3 is
 a) 250 b) 300
 c) 350 d) 400
 e) 285
46. The total number of tosses resulting in number of heads greater than 2 but less than 4 is
 a) 200 b) 250
 c) 275 d) 300
 e) 210
47. Two heads were obtained in
 a) 2 tosses b) 150 tosses
 c) 250 tosses d) 300 tosses
 e) 20 tosses
48. The total number of tosses resulting in number of heads greater than 1 is
 a) 950 b) 800
 c) 500 d) 250
 e) 350

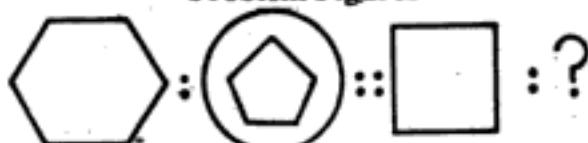
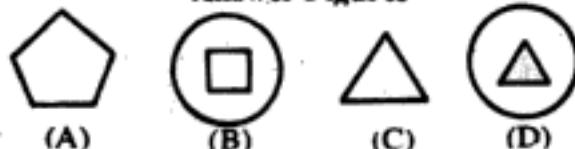
Directions (Q.49-50) : Which one of the alternatives (A), (B), (C) and (D) will complete the series?

49.

Problem Figures

- a) A
- b) B
- c) C
- d) D
- e) None of these

50.

Problem Figures**Answer Figures**

- a) A
- b) B
- c) C
- d) D
- e) None of these

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Statement :

5. All phones are scales. All scales are calculators.

Give answer (a) if only I follows. Give answer (b) if only II follows. Give answer (c) if either I or II follows. Give answer (d) if neither I nor II follows. Give answer (e) if both I and II follow

Conclusions :

- I. All calculators are scales.
- II. All scales are phones.
- III. All phones are calculators.
- IV. Some calculators are phones.

- a) None follows
- b) Only I and II follows
- c) All follows
- d) Only III and IV follows
- e) Only II follows

Statement :

6. Some tables are TVs. Some TVs are radios.

Conclusions :

- I. Some tables are radios.
- II. Some radios are tables.
- III. All radios are TVs
- IV. All TVs are Tables.

- a) None follows
- b) Only II and IV follow
- c) Only I and III follow
- d) All follow
- e) Only IV follows

Directions (Qs. 7 - 9) : In each question below is given a statement followed by two courses of action numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy etc. on the basis of the information given in the statement. You have to assume everything in the statement to be true, then decide which of the two given suggested course of action logically follows for pursuing.

Statement :

7. If the retired Professors of the same Institutes are also invited to deliberate on re-structuring of the organisation, their contribution may be beneficial to the Institute.

Courses of Action :

- I. Management may seek opinion of the employees before calling retired Professors.
- II. Management should involve experienced people for the systematic re-structuring of the organisation.

Statement :

8. Experts Committee on Industrial Relations has revealed in their recent report that not only the internal problems of the organisations were successfully managed through quality circles but also employees' motivation level was increased significantly.

Courses of Action :

- I. Organisations should organise orientation programmes for their employees on quality circles.
- II. Employees should be encouraged to join quality circle programmes.

Statement :

9. The Minister said that the teachers are still not familiarised with the need, importance and meaning of population education in the higher education system. They are not even clearly aware about their role and responsibilities in the population education programme.

Courses of action :

- I. Population Education programme should be included in the college curriculum.

- II.** Orientation programme should be conducted for teachers on population education.

Directions (Qs. 10 - 15) : In making decisions about important questions it is desirable to be able to distinguish between 'strong' arguments and 'weak' arguments so far as they relate to the question. 'Strong' arguments must be both important and directly related to the question. 'Weak' arguments may not be directly related to the question and may be of minor importance or may be related to trivial aspect of the question.

Each question below is followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' and which is a 'weak' argument.

Give answer (a) if only argument I is strong. Give answer (b) if only argument II is strong. Give answer (c) if either I or II is strong. Give answer (d) if neither I nor II is strong. Give answer (e) if both I and II are strong.

- 10. Should internal assessment in colleges be abolished?**

- I. Yes ! This will help in reducing the possibility of favouritism.
II. No ! Teaching faculty will lose control over students.

- 11. Should Government stop spending huge amounts of money on international sports ?**

- I. Yes ! This money can be utilised for the upliftment of the poor.
II. No! Sportspersons will be frustrated and will not get international exposure.

- 12. Should students' union in universities be abolished ?**

- I. Yes ! Students can pay full attention to their career development
II. No ! All the great leaders had been Students' union leaders.

- 13. Should all the college going students compulsorily be sent for military training?**
I. Yes ! This will help them in becoming more punctual and disciplined.
II. No ! Military training should be provided to only deserving students.
- 14. Should all the transport corporations be handed over to the private organisations?**
I. Yes! There will be significant change in the quality and punctuality of services.
II. No! There would not be job security for the employees at all the levels.
- 15. Should the pay scale of Government and private employees be made similar ?**
I. Yes ! Employees will work with more dedication and will not change their job.
II. No! This will stop the feeling of competitiveness and ultimately affect the productivity and profitability.

Directions (Qs. 16 - 19) : In each question below are given two statements followed by two conclusions numbered I and II. You have to take the given statement to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically followed from the given statement, disregarding commonly known facts.

Give answer (a) if only conclusion I follows : Give answer (b) if only conclusion II follows; Give answer (c) if either I or II follows; Give answer (d) if neither I nor II follows. Give answer (e) if both I and II follow.

Statement :

- 16. In the Art Gallery, paintings of a renowned artist are displayed for the public. The prices of the paintings are too high for a common man.**

Conclusions :

- I. Common man purchases paintings from other places.
- II. Costly paintings are generally displayed in Art Galleries.

Statement :

17. Doctors have comprehensive knowledge of human structure.

Conclusions :

- I. Anatomy is one of their subjects in curriculum.
- II. Other subjects also deal with the human structure.

Statement :

18. One research study reveals that children's personality can't be understood without a detailed study about their home environment.

Conclusions :

- I. Teacher's as well as parent's role is equally important for the betterment of the child.
- II. Schools are ignoring the importance of home atmosphere.

Statement :

19. State Government has agreed in principle to sanction more number of posts of primary school teachers in rural and urban areas to reduce the teacher-student ratio.

Conclusions :

- I. Student-teacher ratio in urban areas is higher than that of rural areas.
- II. Student-teacher ratio in rural areas is higher than that of urban areas.

Directions (Qs. 20-24) : Below is given a passage followed by several possible inferences

which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Mark ... (a) if the inference is "definitely true", i.e., it properly follows from the statement of facts given.

Mark answer ... (b) if the inference is "probably true", though not "definitely true" in the light of the facts given.

Mark answer ... (c) if the "data are inadequate", i.e., from the facts given you cannot say whether the inference is likely to be true or false.

Mark answer ... (d) if the inference is "probably false" though not "definitely false" in the light of the facts given.

Mark answer.... (e) if the inference is "definitely false" i.e., it cannot possibly be drawn from the facts given or it contradicts the given facts.

Indian rice exporters might face tough competition in the international market, allege exporters. International demand for Indian rice surfaced either due to its low prices or due to the crop failure in other competitive countries. However, our competitors are having a good crop of rice this year and which indeed sounds as a threat for India, they pointed out. The leading producing countries like Thailand, Vietnam, Myanmar, U.S.A and Pakistan are bringing down their prices on par with Indian prices. Internationally, these countries have reduced their prices by \$50 per ton in lower grades, coming almost on par with Indian prices. Indian rice is currently quoting between \$260 and \$265 per ton. However, in high grade the differential still remains high, therefore, India can expect to be competitive in high grades provided the quality and deliveries are ensured on time. Pakistan is our main competitor and it has reduced its price by 15 percent coming almost in line with the Indian prices. The very fact that international players have started reducing their

Suresh P.O (Q & A)

prices is a signal for Indian exporters to gear up for 1996-97.

20. India has no potential threat in the international market for exporting of rice.
21. Quality and delivery of goods on time are the two main components for being in the forefront.
22. To remain in the international market, India should reduce its price.
23. Indian crops were more inferior in quality than the leading rice producing countries.
24. India should increase production of rice by 15% to gear up for 1996-97.

Directions : (Qs. 25-29) In each question below is given a statement followed by three assumptions numbered I, II and III. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement. Then decide which of the answer (a), (b), (c), (d), and (e) is the correct answer and indicate it on the answer sheet. (Each candidate is provided an answersheet at the Examination Hall)

Statement :

25. In the recently held All India Commerce Conference the session on 'Management of Service Sector in India' surprisingly attracted large number of participants and also received a very good media coverage in the leading newspapers.

Assumptions :

- I. People were not expecting such an encouraging response for service sector.
- II. Service Sector is not managed properly in India.

III. Media is always very positive towards service sector.

- a) Only I is implicit
- b) All are implicit
- c) None is implicit
- d) Only either I or III is implicit
- e) Both II and III are implicit.

Statement :

26. Training must be given to all the employees for increasing productivity and profitability.

Assumptions :

- I. Training is an essential component of productivity.
 - II. Employees can't function effectively without proper training.
 - III. Profitability and productivity are supplementary to each other.
- a) None is implicit
 - b) All are implicit
 - c) Only III is implicit
 - d) Either I or II is implicit
 - e) Both I and III are implicit

Statement :

27. The situation of this area still continues to be tense and out of control. People are requested to be in their homes only.

Assumptions :

- I. There had been some serious incidents.
- II. People will not go to the office.
- III. Normalcy will be restored shortly.

- a) All are implicit
- b) None is implicit
- c) Only I is implicit
- d) Both I & II are implicit
- e) Only I and III are implicit

Statement :

28. 'We must be prepared to face any eventuality and all the assignments must be completed as per their schedule' the Director tells the Faculty Members.

Assumptions :

- I. There is possibility of any serious eventuality.
 - II. Dates are fixed for all the assignments.
 - III. Faculty members are supposed to complete all the assignments.
- a) All are implicit
 b) Only II & III are implicit
 c) None is implicit
 d) Only III is implicit
 e) Only I is implicit

Statement :

29. State Council for Teacher Education (SCTE) has laid down guidelines in respect of minimum qualifications for a person to be employed as a teacher in universities or in recognised Institutions.

Assumptions :

- I. The authorities will now appoint only qualified teachers.
 - II. Only qualified people will apply for the teaching post.
 - III. SCTE decides all the norms of educational qualification for teaching faculty.
- a) All are implicit
 b) None is implicit
 c) Only I is implicit
 d) Both I and III are implicit
 e) Only I & II are implicit

Directions (Qs. 30-32) : Read the following information to answer the questions given below : Eight students A,B,C,D,E,F,G and H are planning to enjoy car racing. There are only two cars and following are the conditions :

- (i) One car can accommodate maximum five and minimum four students.
- (ii) A will sit in the same car in which D is sitting but H is not in the same car.
- (iii) B and C can't sit in the same car in which D is sitting.
- (iv) F will sit in the car of four people only along with A and E but certainly not with G.

30. Which of the following statements is superfluous for the above sitting arrangements ?

A	F	B	C
E	D	H	G

- a) Only (ii) b) Only (i)
 c) Only (iv) d) Only (iii)
 e) None is superfluous

31. If E and A are sitting in the same car, which of the following statements are true ?

- a) B is sitting in the same car
 b) Five students are sitting in the same car
 c) G is not sitting in the same car
 d) F is not sitting in the same car
 e) None of these

32. If H and G are sitting in the same car, who are other two students sitting in the same car ?

- a) B and C b) B and D
 c) C and D d) E and B
 e) None of these

33. Five children were administered psychological tests to know their intellectual level. In the report Psychologists pointed out that the

child A is less intelligent than the child B. The child C is less intelligent than the child D. The child B is less intelligent than the child C and child A is more intelligent than the child E. Which child is the most intelligent ?

- a) A b) E
- c) D d) B
- e) None of these

Directions (Qs. 34 - 43) : Choose the pair/group of words that show the same relationship as given at the top of every pair / group.

34. Summer : Raining

- a) Monday : Sunday
- b) Summer : Winter
- c) December : January
- d) License : Driving
- e) None of these

35. Drive : Driving

- a) Carpenter : wood
- b) Garden : plants
- c) Counsellor : counselling
- d) Psychologist : teaching
- e) None of these

36. What would come in the place of the question mark (?) in the following letter number series

C4X F9U I16R ?

- a) L25P b) L25O
- c) L27P d) K25P
- e) None of these

37. Rajesh walked 25 meters towards south. Then he turned to his left and walked 20 meters. He then turned to his left and walked 25 metres. He again turned to his right and walked 15 metres. At what distance is he from the starting point and in which direction ?

- a) 35 metres - East
- b) 60 metres - East
- c) 35 metres - North
- d) 40 metres - East
- e) None of these

38. On the basis of the relationship between the first two words, choose the right choice for the missing word in the second pair.

Doctor : Nurse : ? : Follower

- a) Worker b) Employer
- c) Union d) Leader
- e) Manager

39. Which of the following will be the third digit from your right end of the fourth number after the numbers are arranged in descending order ?

4697 6989 5392 7518 6215 5942

- a) 4 b) 5
- c) 2 d) 9
- e) 8

40. Five students participated in the scholarship examination. Sudha scored higher than Puja. Kavita scored lower than Suma but higher than Sudha. Mamta scored between Puja and Sudha. Who scored lowest in the examination?

- a) Kavita b) Puja
- c) Mamta d) Sudha
- e) Suma

41. Samant remembers that his brother's birthday is after fifteenth but before eighteenth of February, whereas his sister remembers that her brother's birthday is after sixteenth but before nineteenth of February. On which date in February is Samant's brother's birthday ?

- a) 16th b) 18th
- c) 19th d) 17th
- e) None of these

42. If '+' means 'x', '-' means '+', 'x' means '÷', and '÷' means '+' then what will be the value of

$$16 + 64 - 8 \times 4 + 2 = ?$$

- a) 18 b) 12
- c) 24 d) 16
- e) None of these

43. How many 6s are there in the following number sequence each of which is immediately followed by an even number and immediately preceded by an odd number?

3 6 2 5 6 3 2 6 3 2 6 2 7 6 4 6 5 8 6 7
6 4 2 6 8

- a) One b) Two
- c) Three d) Four
- e) More than four

Directions (Qs. 44-48) : Read the following information to answer the given questions.

The Director of the Institute has announced that six guest lectures on different areas like Leadership, Decision Making, Quality Circles, Motivation, Assessment Centre and Group Discussion are to be organised only one on each day from Monday to Sunday in the month of March 1996, in accordance with the following :

- (i) Motivation should be organised immediately after assessment Centre.
- (ii) Quality Circle should be organised on Wednesday and should not be followed by Group discussion.
- (iii) Decision making should be organised on Friday and there should be a gap of two days between Leadership and Group discussion.
- (iv) One day there will be no lecture (Saturday is NOT that day), just before that day Group discussion will be organised.

44. How many lectures are organised between Motivation and Quality Circle?

- a) Three b) Four
- c) Two d) One
- e) None of these

45. Which of the following informations is NOT required for the above lecture arrangements?

- a) Only iv b) Only iii
- c) Only ii d) Only i
- e) All are required

46. On which day there is no lecture?

- a) Monday b) Sunday
- c) Tuesday d) Wednesday
- e) None of these

47. Which of the pairs of lectures were organised on first and last day?

- a) Group discussion and decision making
- b) Quality circle and Motivation
- c) Leadership and assessment centre
- d) Group discussion and Quality circle
- e) None of these

48. Which day will the lecture on leadership will be organised?

- a) Wednesday b) Friday
- c) Saturday d) Tuesday
- e) None of these

Directions (Qs. 49 - 50) : In each question below is given a statement followed by two courses of action numbered I and II. A course of action is a step or administrative decision to be taken for improvement, follow-up or further action in regard to the problem, policy etc. on the basis of the information given in the statement. You have to assume everything in the statement to be true, then decide which of the given suggested course of action logically follows for pursuing.

Give answer (a) if only I follows. Give answer (b) if only II follows. Give answer (c) if either I or II

follow. Give answer (d) if neither I nor II follow.
Give answer (e) if both I and II follow.

Statement :

49. The Chairman stressed the need for making education system more flexible and regretted that the curriculum has not been revised in keeping with the pace of the changes taking place.

Courses of Action :

- I. Curriculum should be reviewed and revised periodically
- II. System of education should be made more flexible

Statement :

50. Researchers are feeling agitated as libraries are not equipped to provide the right information to the right users at the right time in the required format. Even the users are not aware about the various services available for them.

Courses of Action :

- I. All the information available in the libraries should be computerised to provide faster services to the users.
- II. Library staff should be trained in computer operations.

1996

ANSWERS

General Awareness

(Answers are given below with reference to the year 1996)

1. d	2. e	3. b	4. c	5. b	6. c	7. e	8. d
9. c	10. d	11. e	12. e	13. d	14. e	15. a	16. e
17. d	18. e	19. e	20. b	21. b	22. e	23. c	24. d
25. c	26. d	27. c	28. e	29. b	30. c	31. c	32. d
33. c	34. c	35. a	36. a	37. a	38. c	39. b	40. e
41. c	42. e	43. e	44. a	45. a	46. d	47. c	48. a
49. b	50. b						

English

1. c	2. d	3. a	4. b	5. d	6. e	7. e	8. e
9. b	10. c	11. d	12. d	13. d	14. b	15. c	16. e
17. d	18. b	19. b	20. d	21. a	22. c	23. c	24. c
25. a	26. e	27. b	28. c	29. d	30. b	31. e	32. a
33. c	34. c	35. b	36. b	37. c	38. a	39. d	40. c
41. e	42. a	43. e	44. b	45. d	46. e	47. a	48. a
49. e	50. c						

Quantitative Aptitude

1. c	2. a	3. d	4. d	5. c	6. b	7. d	8. b
9. a	10. c	11. b	12. d	13. a	14. c	15. c	16. b

Sure's P.O (Q & A)

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 17. d | 18. c | 19. c | 20. c | 21. c | 22. c | 23. c | 24. a |
| 25. a | 26. b | 27. b | 28. c | 29. c | 30. a | 31. b | 32. d |
| 33. c | 34. a | 35. a | 36. c | 37. c | 38. b | 39. b | 40. d |
| 41. c | 42. d | 43. b | 44. c | 45. a | 46. b | 47. d | 48. b |
| 49. d | 50. d | | | | | | |

Test of Reasoning

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. b | 2. b | 3. e | 4. e | 5. d | 6. a | 7. b | 8. e |
| 9. b | 10. a | 11. b | 12. a | 13. e | 14. e | 15. b | 16. d |
| 17. a | 18. a | 19. d | 20. b | 21. a | 22. a | 23. e | 24. e |
| 25. a | 26. d | 27. d | 28. a | 29. a | 30. b | 31. c | 32. a |
| 33. c | 34. c | 35. c | 36. b | 37. a | 38. d | 39. d | 40. b |
| 41. d | 42. d | 43. c | 44. a | 45. e | 46. c | 47. e | 48. e |
| 49. e | 50. e | | | | | | |

EXPLANATORY NOTES (1996)

English

34. (c) Our school would have won the match, if only we had concentrated. This means : We did not concentrate (condition). We did not win the match (conclusion). The condition was not fulfilled and therefore the consequence did not take place. In such cases, the if clause must be in the past perfect tense and the main clause must have would/might/could + have + past participle of the verb

35. (b) In (a) and is unnecessary. It joins two Phrases/Clauses (both must be main or subordinate)

Having missed the train (which I usually travel) is a phrase with a subordinate clause appended to qualify the noun train; Hence we cannot use 'and' before the following main clause.

In (c) Instead of 'being' we must use have been because missing is a past completed action. Hence we cannot say being missed.

In (d) the sense is that the train was missing. It is the person that has missed the train . In (e) we cannot use 'not only and also' as this is unidiomatic and inelegant.

36.(b) In (a) : the 'Since' Clause suggests that the reason for his generous action is his poverty. So it is illogical

In (c) : Being not rich is unidiomatic. We must say not being rich. Again this also suggests that poverty is the reason for his generosity.

In (d) : the 'although' usage is wrong. We could say : Although he was not rich by any means, he never turned down anyone...

In (e) : again the Since Clause suggests that it is the reason. Again 'since he lacked the needed money' is inelegant.

Hence (b) is right.

37. (c) Same as the suggestion for the Question No (34) as this Question belongs to the same type.

38.(a) (b) is grammatically right, but is inelegant.

(c) the tense in the Since clause is past and in the main clause it is present. Hence wrong usage of the tense.

(d) we cannot use being here

(e) 'would not have delivered' is wrong. It suggests that the consequence is imaginary.

Hence (a) is right

39. (d) The meaning is that Ajay has been working and it will be 20 years by June next year. To bring out this sense we must use Future perfect continuous. Hence (d) is right.

In (a) the position of 20 years suggests that his age is 20 years.

(b) means that he will not work after June next year.

(c) says that Ajay will work after completing 20 years of age.

- (e) Being suggests that completing 20 years is the reason for his working in the office.
40. (c) (a) wrong usage of tense. In the I part there is **had** (past) in the II part: becomes (present)
- (b) Again mixing up of tenses.
- (d) does not state the general proposition: it tells about a particular case . Also, we don't say **holidays being started**. It conveys a passive voice. We must say **holidays having started**.
- (e) We cannot combine than with as soon as; we must use no sooner...than
- Hence (c) is right
41. (e) In (a) We cannot use with regard to
- (b) mixing up of present tense with the past.
- (c) that has no place. It changes the following clause into subordinate clause, which is really a main Clause.
- (d) makes both the condition and the consequence future oriented
- (c) alone is right.
42. (a) In (b) the early age of 3 becomes the first reflection which is not the idea.
- (c) no verb hence not a sentence.
- (d) would be makes it less certain.
- (e) simply absurd. Age would not begin the reflections; reflections would begin from/at that age.
- Hence (a) is preferable.
43. (e) (a) that -Clause must come after the talks.
- (b) No main Clause at all.
- (c) makes the sense that managers are to do the work.
- (d) The sense is absurd; besides them is wrong; it should be getting themselves involved.
- Hence (e) is preferable.

Quantitative Aptitude

1. (e) Let R & r be the radii of the two circles.

$$\text{Then } 2\pi R = 352 \text{ m}, 2\pi r = 264 \text{ m}$$

$$2\pi R - 2\pi r = 352 - 264$$

$$2\pi(R-r) = 88$$

$$(R-r) = \frac{88}{2\pi} = \frac{88 \times 7}{2 \times 22} = 2 \times 7 = 14 \text{ m}$$

2. (a) The diagonal of the inscribed square = diameter of the circle = $2r$.

$$\text{Area of the circle} = \pi r^2 = \frac{22}{7} \times r^2$$

$$\text{Area of the Square} = \text{side} \times \text{side} = x^2 \\ \text{But } (\text{diagonal})^2 = x^2 + x^2$$

$$(2r)^2 = 2x^2$$

$$x^2 = 2r^2$$

Difference between the areas

$$= \frac{22}{7} r^2 - 2r^2 = \frac{8r^2}{7} \text{ sq units}$$

3. (d) Let R and r be the radii of the two spheres.

$$\text{Ratio of their surface areas} = 4\pi R^2 : 4\pi r^2$$

$$= R^2 : r^2 = 4 : 25$$

$$\therefore R : r = 2 : 5$$

$$\text{Ratio of their Volume} = \frac{4}{3}\pi R^3 : \frac{4}{3}\pi r^3$$

$$= 8 : 125$$

4. (d) Let the radius of the Sphere be r & side of a cube = a

$$\text{Their surface areas} : 4\pi r^2, 6a^2$$

$$\text{But } 4\pi r^2 = 6a^2$$

$$a = \frac{2r\sqrt{\pi}}{\sqrt{6}}$$

$$\text{Their Volumes} : \frac{4}{3}\pi r^3 : a^3$$

$$= \frac{4}{3}\pi r^3 : \left(\frac{2r\sqrt{\pi}}{\sqrt{6}}\right)^3$$

$$= \frac{4}{3}\pi r^3 : \frac{8r^3\pi\sqrt{\pi}}{6\sqrt{6}}$$

$$= \sqrt{6} : \sqrt{\pi}$$

5. (c) If d_1, d_2 are the diagonals of a rhombus

$$\text{then its area} = \frac{1}{2} d_1 \times d_2 = 15$$

$$\text{and } d_1 = 5$$

$$\therefore \frac{1}{2} \times 5 \times d_2 = 15$$

$$d_2 = \frac{2 \times 15}{5} = 6 \text{ cm}$$

6. (b) Area of the Sq. = $\frac{1}{2} \times 90 \times 90 = 4050 \text{ m}^2$

7. (d) Principal + Interest for 5 years = Rs. 750

Principal + Interest for 3 years = Rs. 690

Subtracting : Interest for 2 years = Rs. 60

\therefore Interest for 1 yr = Rs. 30

\therefore Principal = Amount for 3 years – Interest for 3 years = $690 - 90 = \text{Rs. } 600$.

8. (b) Men days

$$20 \quad 20$$

$$25 \quad ?$$

$$\frac{20 \times 20}{25} = 16$$

9. (a) Days Pumps

$$6 \quad 14$$

$$4 \quad ?$$

$$\frac{14 \times 6}{4} = 21$$

\therefore Extra pumps needed = $21 - 14 = 7$

10. (c) Let the wt of the new man be x kg.

Average wt. of six men be y

Total weight of 6 men = 6y

When a man of 80 kg is replaced by another
the wt of 6 people = $6y - 80 + x$

Their average wt. :

$$\frac{6y - 80 + x}{6} = (y - 3)$$

$$6y - 80 + x = 6y - 18$$

$$\therefore x = 80 - 18 = 62 \text{ kg.}$$

Alternatively : Average decrease : 3 kg

Total decrease : $6 \times 3 = 18 \text{ kg}$

This is due to replacing a fat man by a thin man.

\therefore Wt of the thin man = $80 - 18 = 62 \text{ kg.}$

11. (b) Speed of the man = 5 kmph.

He is late by 7 minutes.

Let x be the schedule time & distance :
 d

\therefore Schedule time $x = \frac{d}{S}$ + late time

$$= \frac{d}{5} - \frac{7}{60}$$

If his speed is 6 kmph, his time (5 m early)

$$\text{Schedule time } x = \frac{d}{6} + \frac{5}{60}$$

$$\frac{d}{6} + \frac{5}{60} = \frac{d}{5} - \frac{7}{60}$$

$$\frac{d}{5} - \frac{d}{6} = \frac{12}{60}$$

$$\frac{d}{30} = \frac{1}{5}$$

$$\therefore d = 6 \text{ km.}$$

Note : When the distance is the same times are inversely proportional to the speeds.

His speeds = 5 : 6

His time : If the x is the time required, he was late by 7 minutes : $x + \frac{7}{12}$

In II case he was early by 5 minutes

$$\text{His time } x - \frac{5}{60}$$

$$(x + \frac{7}{12}) : (x - \frac{5}{60}) = 6 : 5 \text{ (inverse)}$$

$$\text{Solving } x = 65$$

$$\therefore \text{His time } 65 - 5 = 60 \text{ minutes}$$

$$\text{Speed} = 6 \text{ km.ph.}$$

$$\therefore \text{Distance} = 6 \text{ km.}$$

12 .(d) Let a, b , be two sides of which a is the smaller

$$\text{Then the hypotenuse} = \sqrt{a^2 + b^2}$$

$$\text{Perimeter} : a + b + \sqrt{a^2 + b^2} = 6 \times \text{smaller side}$$

$$\therefore a + b + \sqrt{a^2 + b^2} = 6a$$

$$b + \sqrt{a^2 + b^2} = 5a$$

$$\sqrt{a^2 + b^2} = 5a - b$$

$$\text{or } a^2 + b^2 = 25a^2 + b^2 - 10ab$$

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$$\text{then } \frac{V_1}{V_2} = \frac{3}{2}$$

$$\therefore 2V_1 = 3V_2$$

30. (a) One side = 6 cm

$$\text{Hypotenuse} = 10 \text{ cm}$$

$$\text{The other side} = \sqrt{10^2 - 6^2} = 8$$

Area of the triangle

$$= \frac{1}{2} \times 8 \times 6 = 24 \text{ cm}^2$$

31. (b) Let the original price be Rs. 100

$$\text{I discount of } 20\% = 20 \text{ Rs.}$$

$$\text{Offer of sale} = \text{Rs. } 80.$$

$$\text{II discount } 15\% = \frac{80 \times 15}{100} = 12$$

$$\text{Final sale Price } 80 - 12 = \text{Rs. } 68$$

This is equal to $(100 - 68) = 32\%$ discount

32. (d) Increase in volume in the liquid contained in the Cylinder

= Volume of the sphere dropped

$$= \frac{4}{3}\pi r^3 = \frac{4}{3}\pi \times 15^3$$

Let the increase in the height of Cylinder be h

$$\pi r^2 h = \frac{4}{3}\pi 15^3$$

$$\text{i.e. } \pi \times 30^2 \times h = \frac{4}{3}\pi 15^3$$

$$h = \frac{4}{3} \times \frac{15 \times 15 \times 15}{30 \times 30} \\ = 5 \text{ cm}$$

$$33. (\text{c}) \quad \text{C.P.} = \frac{SP \times 100}{100 + g} \text{ or } \frac{SP \times 100}{100 - l}$$

Where g = gain percent and l = loss percent

\therefore CP of I one

$$= \frac{500 \times 100}{110} = \frac{5000}{11} \text{ Rs.}$$

\therefore CP of II one

$$= \frac{500 \times 100}{90} = \frac{5000}{9} \text{ Rs.}$$

Total S.P. = Rs. 1000

Total C.P.

$$= \frac{5000}{11} + \frac{5000}{9} = \frac{5000(20)}{99} = \frac{100000}{99}$$

$$\text{loss} = \frac{100000}{99} - 1000 = \frac{1000}{99}$$

$$\text{Percentage loss} = \frac{\frac{1000}{99}}{CP} \times 100$$

$$= \frac{1000}{99} \times \frac{99}{100000} \times 100 = 1$$

loss = 1%

34. (a) Let P be the principal. Then the amount = $8P$

$$8P = P\left(1 + \frac{r}{100}\right)^3$$

$$\therefore \left(1 + \frac{r}{100}\right)^3 = 8$$

$$1 + \frac{r}{100} = 2$$

$$\frac{r}{100} = 1$$

$$r = 100$$

35. (a) Filling pump can fill in 1 hr = $\frac{1}{9}$ part

$$= \frac{1}{9}$$
 Cistern

But when there is a leak, in 1 hr = $\frac{1}{10}$
Cistern can be filled

\therefore In 1 hr the leak empties : $\frac{1}{9} - \frac{1}{10} = \frac{1}{90}$
cistern

The leak can empty the cistern in 90 h

36. (c) Let 'n' be the no. of oranges at 3/1 Rs

Cost of n oranges $\frac{n}{3}$ Rs.

Cost of n oranges at 2 / Rs. 1 = $\frac{n}{2}$

Total cost of 2n oranges

$$= \frac{n}{3} + \frac{n}{2} = \frac{5n}{6}$$
 Rs

$$\text{Profit} = 20\% = \frac{5n}{6} \times \frac{20}{100} = \frac{n}{6}$$
 Rs.

$$\text{S.P. of } 2n \text{ oranges} : \frac{5n}{6} + \frac{n}{6} = n \text{ Rs.}$$

$$\text{S.P. 1 orange} : \frac{n}{2n} \text{ Rs.} = \frac{1}{2} \text{ Rs.}$$

$$\text{S.P. 12 oranges} = \frac{1}{2} \times 12 = \text{Rs. 6}$$

Instead of 'n' oranges, you can assume 1 orange in each case and work out the sum.

37. (c) Time to cross a tree (or a lamp post or any stationary thing)

$$= \frac{\text{length of the train}}{\text{Speed}}$$

$$= \frac{150}{\frac{1000}{90}} \text{ hrs} = \frac{150}{1000 \times 90} \times 3600 = 6 \text{ secs}$$

38. (b) 1 leap of the dog = 3 leaps of the hare

3 leaps of dog : 5 leaps of hare

In 3 leaps the dog goes as much as 3×3 leaps of the hare.

Their speeds = 9 : 5

39. (b) $1^2 + 2^2 + 3^2 + \dots + 7^2 =$

$$\frac{7 \times 8 \times 15}{6} = 140$$

$$[1^2 + 2^2 + 3^2 + \dots + n^2 =$$

$$\frac{n(n+1)(2n+1)}{6}]$$

$$\therefore \text{Average} = \frac{140}{7} = 20$$

40. (d) $N = 50 + 50 \times 20\%$

$$= 50 + 10 = 60$$

41. (c) $(4x^2 - 3y^2) : (2x^2 + 5y^2) = 12 : 19$

$$\therefore 19(4x^2 - 3y^2) = 12(2x^2 + 5y^2)$$

$$52x^2 = 117y^2$$

$$4x^2 = 9y^2$$

$$\frac{x^2}{y^2} = \frac{9}{4}$$

$$\frac{x}{y} = \frac{3}{2}$$

42. (d) Since this is cut into cubes of maximum integral side (least no cubes is needed)

its side is the H.C.F of 15, 12, & 6 = 3

$$\therefore \text{No. of Cubes} = \frac{15 \times 12 \times 6}{3 \times 3 \times 3} = 40 \text{ cubes}$$

43. (b) Let 'n' be the number

$$n - n \times \frac{40}{100} = 30$$

$$\frac{60}{100}n = 30$$

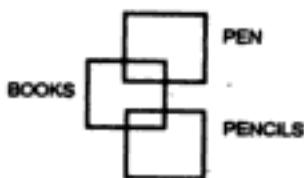
$$n = \frac{30 \times 100}{60} = 50$$

44. (c) If the number is n, then, $n + 10n = 264$

$$n = 24.$$

Test of Reasoning

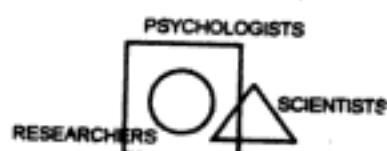
1. (b)



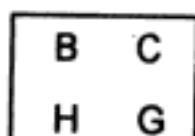
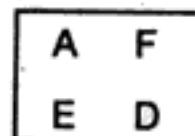
4. (e)



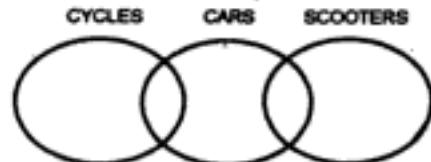
2. (b)



30-32



3. (e)



33. (c) $E < A < B < C < D$

Sura's P.O (Q & A)

36. (b) C4X \rightarrow 3rd alphabet (2)² 3rd alphabet from reverse.

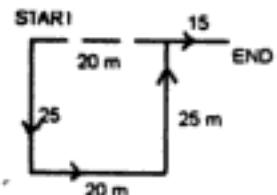
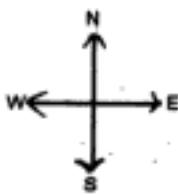
F9U \rightarrow 6th alphabet (3)² 6th alphabet from reverse

I16R \rightarrow 9th alphabet (4)² 9th alphabet from reverse

\therefore Next must be

L25O \rightarrow 12th alphabet (5)² 12th alphabet from reverse

37. (a)



39. (d) 7518, 6989, 6215, 5942, 5392, 4697

43. (c) 3 6 2 5 6 3 2 6 3 2 6 2 7 6 4 6 5 8 6

7 6 4 2 6 8

PROBATIONARY OFFICERS' EXAM FOR ASSOCIATE BANKS OF S.B.I. HELD IN JANUARY, 1997

GENERAL AWARENESS

- 1.** Directions (Qs. 1 - 5) : In the questions below, a pair of statements (I) and (II) are given, followed by five other alternatives. You have to read both the statements (I) and (II) and then select which one of the five alternatives is correct.
- (I) Former Chief Justice of India Shri Ranganath Mishra will continue to be the Chairman of the National Human Rights Commission for another 3 years from January '97.
 (II) Former Chief Justice of Gujarat High Court Shri M.N. Venkatachaliah will be the new Chairman of the National Human Rights Commission as Justice Ranganath Mishra has completed his term.
- a) (I) & (II) both are wrong
 b) (I) & (II) both are correct
 c) Only (I) is correct
 d) Only (II) is correct
 e) Both are only partially correct
- 2.** (I) Yamaha Motor Co. of Japan plans to set up the world's largest motorcycle factory in India.
 (II) This will be Yamaha's joint venture with Escorts.
- a) I & II both are not correct
 b) Only I is correct
 c) Only II is correct
 d) I & II are partially correct as Yamaha is a Spanish firm and has joined hands with General Motors
 e) I & II both are correct
- 3.** (I) Bytes is the unit to measure the memory of the computer.
- (II) COBOL Bytes is one of the biggest units of memory of a computer.
- a) I & II both are correct
 b) Only I is correct
 c) Only II is correct
 d) I & II both are not correct
 e) I & II are partially correct as the memory of a computer is called Buffer not Bytes.
- 4.** (I) The wholesale price index for all commodities remained at single digit level during the last week of September 96.
 (II) It was the 73rd consecutive week when the rate of inflation remained at single digit level.
- a) Only (I) is correct
 b) is partially correct as it was 60th week and not 73rd
 c) I and II both are correct
 d) I & II both are partially correct as these statistics are not calculated on weekly basis.
- 5.** (I) The Central Statistical Organisation of India drastically downgraded the growth rate of the economy in 1995-96 from 7% - stated in Economic Survey update - to about 5.3%
 (II) The estimate of 7% has gone off the mark as agricultural production had been considerably over-estimated.
- a) Only I is correct
 b) Only II is correct
 c) I & II both are correct
 d) I & II both are not correct
 e) I is correct but II is only partially correct as agri-products are not considered for projections of growth rate.

6. Who among the following represented India in the G-15 Summit held in November 1996 in Harare ?
- Mr. P. Chidambaram
 - Mr. K.R. Narayanan
 - Mr. H.D. Deve Gowda
 - India is not a member of G-15
 - None of these
7. Which of the following is not true about RAM and ROM in a Computer?
- RAM and ROM both are storage devices
 - RAM and ROM both can be assessed randomly
 - Data can be written on to ROM while RAM does not permit user to write on it
- Only I is correct
 - Only II is correct
 - I, II are correct, III is not correct
 - I, II & III all are correct
 - Only I & III are correct, II is not correct
8. The birth rate measures the number of births during a year per
- 10,000 of population
 - 1,000 of population
 - 1,00,000 of population
 - 100 of population
 - None of these
9. Which of the following countries has launched a rocket to study the planet Mars and collect samples of soil from there?
- U.S.A.
 - France
 - Germany
 - Russia
 - None of these
10. Cooking gas is a mixture of which of the following two gases ?
- Methane and Carbon dioxide
 - Oxygen and Nitrogen
 - Butane and Propane
 - Butane and Methane
 - Oxygen and Methane
11. Maruti Udyog Ltd., has an expansion plan to add a capacity of 1,00,000 cars per year by 1998. The company will raise how much amount through debt instruments?
- Rs. 900 crore
 - Rs. 1,000 crore
 - Rs. 1,200 crore
 - Rs. 1,500 crore
 - None of these
12. With which country is Switzerland joined by the simplon Railway Tunnel?
- France
 - Germany
 - Italy
 - India
 - None of these
13. Shri. O.N. Srivatsava whose name was recently in news in November 1996 has taken over as the
- Chief Minister of Manipur
 - Governor of Manipur
 - Governor of Bihar
 - Chief Minister of Tripura
 - None of these
14. Which of the following is not true about Indian Tobacco Company Ltd., (ITC) which was very much in news during November 1996?
- By an order of the Singapore High Court the ITC Global Holdings, which is the Singapore trading arm of Indian ITC Ltd., had been placed under judicial management in Singapore
 - ITC is currently under investigation in India for alleged foreign exchange violations
 - Calcutta based ITC Ltd., is India's largest cigarette manufacturer
- I, II and III are all correct
 - Only I & II are correct
 - Only II & III are correct
 - I & III are not correct
 - I, II & III all are not correct
15. Which of the following technical terms is not related with computer systems ?
- Virus
 - Winchester Disk
 - Mouse
 - FIFO System
 - MICR

16. Trade winds of the northern hemisphere blow from the north-east to south-west due to
 a) Coriolis force
 b) Gravitational force
 c) Centripetal force
 d) Centrifugal force
 e) None of these
17. Which of the following statements is true about President Bill Clinton ?
 a) He lost the general elections held in November 1996 against Christopher
 b) He will be the President of U.S.A. once again for a period of six years.
 c) He got highest votes in the general elections held in November, 1996 but cannot take over as the President of U.S.A. as he does not have the mandatory 50% votes
 d) He shall be the President of U.S.A for another term
 e) None of these
18. Michael Jackson show held in India on 1st November 1996 was organised and promoted by
 a) Amitabh Bachchan Corporation Ltd.,
 b) Ashirvad International Ltd.,
 c) Times of India Group of Publications
 d) Shiv Udyog Sena of Mumbai
 e) Wizcraft
19. 'British MPs for banning sale of Gandhi Papers' - was a news in leading newspapers during November 1996. Which of the following is true about this news headline ?
 a) The British Parliament expressed concern over the proposed auction of some of the letters of Mahatma Gandhi
 b) The House of commons requested the Government of India to put a ban on the sale of one book on Mrs. Indira Gandhi containing some letters she wrote to the British Prime Minister
 c) British Government requested Navjeevan Trust to return those treasured documents of Mahatma Gandhi to London
- Museum, the place to which they belong, rather than using them for commercial purposes
- d) British Government has expressed serious concern over the action taken by Yogesh Gandhi wherein he has given the proceeds of the auction of Gandhi Papers to a controversial American organisation as an award
 e) None of these
20. 'NSDL introduction finally ushers in paperless trading' - was the headline in leading newspapers during November 1996. This notion of NSDL will have a direct bearing on the -
 a) functioning of banks engaged in merchant banking in India.
 b) functioning of the Reserve Bank of India as it will not be required to supply additional currency frequently to maintain the balance in circulation of currency.
 c) functioning of capital market as it will bring paperless trading in shares and other securities.
 d) functions of the companies as now they are not required to submit any papers to the Registrar of Companies unless they have completed five years of their functioning from the date of their registration
 e) none of these
21. Mr. J.D. Wolfensohn who was on an official visit to India during October '96 is the -
 a) Secretary of World Health Organisation
 b) President of the World Bank
 c) President of World Trade Organisation
 d) Secretary of UNICEF
 e) President of the Amnesty International
22. Which of the following nations is going to be the first Asian country to join the Organisation for Economic Cooperation & Development (OECD) which is the exclusive club of the world's richest industrial nations?
 a) China b) Singapore
 c) India d) S. Korea
 e) N. Korea

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- c) Rajya Sabha from Delhi
d) Rajya Sabha from Karnataka
e) Lok Sabha from Assam
34. Shri Gegong Apang, who resigned from the earlier party (Congress I) and made a new party, is the Chief Minister of
a) Assam b) Tripura
c) Manipur d) Arunachal Pradesh
e) None of these
35. Which of the following represents the total foodgrain production during 1996-97? (Approximately in million tonnes.)
a) 130 b) 180
c) 198 d) 210
e) 235
36. Who among the following is the author of the book 'Last Orders' which got the Booker Prize recently
a) Graham Swift
b) Khursheeda Modi
c) Richard Schonberger
d) Tom Cannon
e) None of the above
37. Mr. William Vickrey was awarded the nobel prize posthumously, for the year 1996, for his contribution in the field of
a) Physics b) Chemistry
c) Medicine d) World Peace
e) Economics
38. The Oil Import Bill of India in the year 1996-97 will approximately be to the tune of
a) Rs.30,000 crore
b) Rs.35,000 crore
c) Rs.40,000 crore
d) Rs.45,000 crore
e) Rs.65,000 crore
39. Which of the following countries won the Four Nation Cricket Championship Trophy held in Nairobi in October 1996?
a) Pakistan b) South Africa
c) India d) Australia
e) None of these
40. Which of the following is true about the new policy of the Government of India to allow private investment in port sector?
a) The policy provides for the formation of an independent regulatory authority to decide the tariff.
b) The lease period will be 20 years.
c) The lease can be extended up to 30 years in exceptional case.
d) The tariff can be revised up to 8% - 10% every five years.
e) All the above statements are true.
41. China has threatened to impose trade sanctions against which of the following countries as the country has decided to receive Dalai Lama?
a) Britain b) U.S.A.
c) Australia d) South Africa
e) None of these
42. Who amongst the following has written the book 'My South Block Years : Memories of a Foreign Secretary'?
a) Shri Romesh Bhandari
b) Shri J.N. Dixit
c) Shri K. Natwar Singh
d) Shri R.K. Dhawan
e) None of the above
43. The Agro Industries Corporation of which of the following States has won the Productivity Award for six successive years for its best performance?
a) Punjab b) Haryana
c) Gujarat d) Maharashtra
e) Kerala
44. Which of the following companies has launched the latest cellular phone 'Micro Tac International 8700'?
a) Max Touch b) BPL
c) Nokia d) Motorola
e) None of these
45. Former Pakistan cricket captain Imran Khan belongs to which of the following political parties?
a) Congress
b) Janata Party
c) National Conference
d) Indian National Congress
e) None of these

- a) Pakistan People's Party b) Jamhuri Islam
b) Jamhuri Islam c) Tehreek-e-Insaf
c) Tehreek-e-Insaf d) Awami League
d) Awami League e) None of the above
46. The 13th Asian Cup Table Tennis Tournament was organised at which of the following places in November 1996?
a) Jaipur b) New Delhi
c) Bangalore d) Mumbai
e) Calcutta
47. In a decision taken by the Reserve Bank of India, a cut in cash reserve ratio (CRR) by 2% has been introduced. How much money is expected to be released by this cut into the system?
a) Rs.6,000 crore b) Rs.6,500 crore
c) Rs.7,000 crore d) Rs.7,500 crore
e) Rs.8,500 crore
48. As per figures available, what was the quantity of sugar exported from India during 1995-96? (Approximately in tonnes)
a) 2,00,000 b) 3,00,000
c) 3,35,000 d) 4,00,000
e) 4,40,000
49. Which of the following statements is not true about Industrial Development Bank of India (IDBI)?
a) It has decided to forfeit about Rs.330 crores worth of its shares
b) IDBI issued shares in July 1995
c) The amount of its maiden public issue in July 1995, was approximately Rs.2,370 crores
d) The move to forfeit shares will reduce its paid up capital by Rs.200 crores
e) Its paid up capital at present is about Rs.688 crores
50. Dr. Farooq Abdullah has taken over as the Chief Minister of Jammu & Kashmir State.
a) 9th b) 8th
c) 7th d) 10th
e) 6th

PROBATIONARY OFFICERS' (B.S.R.B., BOMBAY) EXAM.

HELD IN FEBRUARY, 1997

ENGLISH

Directions (Qs. 1-3) : Pick out the word that is most nearly the SAME in meaning as the word printed in bold type as used in the passage.

1. MANAGED :

- | | |
|--------------|---------------|
| a) Performed | b) Manoeuvred |
| c) Trained | d) Organized |
| e) Conducted | |

2. SUBTLE :

- | | |
|----------------|--------------|
| a) Innocent | b) Soft |
| c) Dangerous | d) Insidious |
| e) Devastating | |

3. PRETENSIONS :

- | | |
|-----------------|-------------------|
| a) Claims | b) Access |
| c) Apathy | d) Permissiveness |
| e) Shortcomings | |

Directions (Qs. 4-13) : In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fills the blank appropriately in the context of the whole passage. Find out the appropriate word.

In view of the ... (4) ... demand for personnel with commerce background, in the post-liberalisation period, courses in commerce have ... (5) ... the attention of students and parents. There is a growing ... (6) ... for these courses not only in schools but also in colleges. But the ... (7) ... of commerce education in schools leaves ... (8) ... to be desired. Its popularity, importance and quality, to a large extent, depends much on the teaching methodology being ... (9) ... in schools. Of course, the ... (10) ... review and ... (11) ... of syllabi also ... (12) But this aspect is ... (13) ... taken care of suitably, by the concerned organisations.

4. a) exaggerated b) unreasonable
 c) tremendous d) increasing
 e) diminishing

8. a) scope b) much
 c) short d) everything
 e) nothing

5. a) distorted b) ameliorated
 c) attracted d) weighed
 e) encouraged

9. a) abandoned b) practised
 c) contemplated d) assimilated
 e) taught

6. a) demand b) contempt
 c) dissatisfaction d) commotion
 e) urgency

10. a) unscrupulous b) partial
 c) expert d) general
 e) periodical

7. a) awareness b) intricacy
 c) status d) necessity
 e) quality

11. a) discussions b) perusal
 c) reduction d) updating
 e) formulation

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at the helm of affairs. As a result, they ceased to inspire the younger lot. India continues to be a borrower of science and technology, even though its potential for originality is substantial.

Our achievements in nuclear science and technology may be dazzling to our people. But, in worth and originality, they are ordinary and routine. While our own people remain ignorant, the people of other countries know all about the pretensions to knowledge of our nuclear science and technology managers. One subtle way of sabotaging our nuclear goals is to help hollow persons reach and remain at the helm of affairs. International bodies come in as handy tools in that subtle process. The veil of secrecy effectively protects the mismanagement in our nuclear establishments. The talk of national security comes as an easy weapon to prevent any probe into mismanagement. On nuclear matters, the media in our country, by and large, avoid the investigative approach. As a result, the mismatch between promise and performance in the nuclear field does not get exposed as much as the mismanagements in other fields.

- 24. What does the author mean by 'doing' science?**
 - a) Demonstrating exaggerated performance without achieving the desired level
 - b) Managing effectively the administrative functions involved in the power game
 - c) Concentrating on such researches which have very low practical utility
 - d) Displaying genuine acumen and performance in scientific studies
 - e) None of these

- 25. Which of the following factors help prevent the exposure of drawbacks in nuclear establishments?**
 - (I) The concept of secrecy
 - (II) The constraint of National Security
 - (III) The investigative approach of the Media
 - a) Only I
 - b) Only II
 - c) Only III
 - d) Only I and II
 - e) Only I and III

- 26. The author of the passage thinks that**
 - a) India should continue to borrow technology from abroad
 - b) India's potential for originality is not put to optimum utilisation
 - c) India lacks the necessary potential to compete with other nations
 - d) Our scientists did all their best to inspire the younger lot

- 27. The author of the passage has**
 - a) criticised the power-hungry Indian technocrats
 - b) appreciated the Japanese scientists unduly and exorbitantly
 - c) hailed India's technological advancements in the past five decades
 - d) underestimated the Japanese and Chinese scientists and technologists
 - e) unreasonably criticised the Indian politicians for their apathy

- 28. 'Doing science' and 'managing science' as implied by the author is analogous to**
 - a) set target and achieving it
 - b) fact and fantasy
 - c) originality and adaptability
 - d) scientific inventions and discovery of principles
 - e) inspiration and aspiration

- 29. Which of the following is the correct assessment of India's post- independence nuclear and scientific advancements?**
 - a) Originality and adaptability is duly displayed in the field of applied science
 - b) Our achievements in nuclear science and technology are dazzling

- c) Our achievements are of a very ordinary quality and routine nature
d) Our scientists have given full justice to the developmental needs of nuclear science
e) None of these
30. Which of the following is the commonality between the Indian and the Japanese scientists? Both have displayed
a) originality in applied sciences
b) an advancement of substandard quality
c) greed for influence and power
d) remarkable lust for publicity
e) none of these
31. What according to the passage is the criterion to decide the strength of a country?
a) The country's population
b) The moral values of the people
c) International understanding cherished by the people
d) Potential of people to achieve desired targets
e) None of these
32. It appears that the author of the passage is fully convinced that
a) most of the managers of science and technology are not doing their work properly
b) India's strength lies in its moral stands on international issues
c) India's potential for originality in science and technology is over utilised
d) Our scientists though criticised in our country are recognised abroad
e) people lacking the desired qualities are supported to get at the helm of affairs
- it is and no correction is required, mark (e) as the answer.
33. He is a singer of repute, but his *yesterday's performance* was quite disappointing.
a) performances for yesterday were
b) yesterday performance was
c) yesterday performances were
d) performances about yesterday were
e) no correction required
34. They *should have calmly thought of* the advantages that would accrue to them.
a) should have been calm in thinking about
b) should be calmly thought of
c) shall have calmly thought of
d) should have calmly think of
e) no correction required
35. The orator *had been left* the auditorium before the audience stood up.
a) had been leaving
b) was left
c) left
d) would leave
e) no correction required
36. Because of his ill health, the doctor has advised him *not to refrain* from smoking.
a) to not refrain from
b) to resort to
c) to refrain from
d) to be refrained from
e) no correction required
37. One of my drawbacks is that I *do not have to* tolerance of ambiguity.
a) do not have b) cannot have to
c) am not d) did not have to
e) no correction required

Directions (Qs.33-42) : Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in italics in the following sentences to make the sentence grammatically correct. If the sentence is correct as

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47. His speech has seriously the young minds.

- a) audacious, delighted
- b) maiden, flattered
- c) humorous, damaged
- d) irresponsible, misled
- e) eccentric, questioned

Directions (Qs.48-50) : Pick out the word that is most OPPOSITE in meaning of the word printed in bold type.

48. **SUBSTANTIAL :**

- a) Extensive
- b) Independent
- c) Noteworthy
- d) Uncompromising
- e) Insignificant

49. **DAZZLING :**

- a) Glaring
- b) Unscrupulous
- c) Unexposable
- d) Unnoticeable
- e) Lustrous

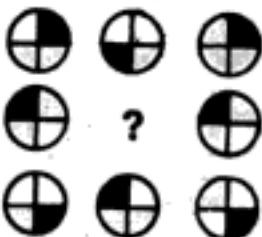
50. **LATENT :**

- a) Concealed
- b) Real
- c) Apparent
- d) Dubious
- e) Untrustworthy

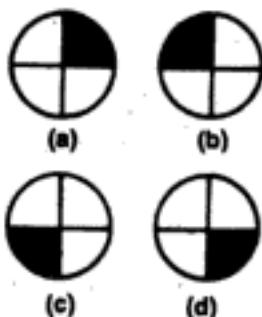
**PROBATIONARY OFFICERS' EXAM. FOR ASSOCIATE BANKS
OF S.B.I. HELD IN FEBRUARY, 1997**

QUANTITATIVE APTITUDE

1.



Which one of the figures shown below occupies the blank space in the matrix given above?



2. Which one of the following illustrates the relationship among the three given things, as given in the following four sets of diagrams?

A indicates that one thing (group) is within the other one, but the third one is altogether different.

B indicates that two things are overlapping while the third one is altogether different

C indicates that one thing is within the other while the third one includes the other two.

D indicates that there are three things separate from one another



a)



b)

- c)
- d)
3. A married his uncle's daughter C. His brother B married D from a different caste. X is the child of A and C and Y is the child of B and D. Which of the following statements is not correct?
- B and C are cousins
 - X and Y are cousins
 - C and Y are related by blood
 - D and X are related by blood
 - None of these
4. Mosquitoes and cockroaches die by Baygon whether it is in the form of powder or liquid. However, it was found that more of the cockroaches died instantly by eating Baygon powder while more mosquitoes died after Baygon liquid was sprayed. Which of the following statements is/are correct?

- Mosquitoes do not die by Baygon powder.
- Baygon liquid has little effect on cockroaches.
- Baygon powder has more concentration for killing insects.

Select the correct answer using the codes given below :

Codes :

- | | |
|------------------|---------------|
| a) III alone | b) II and III |
| c) I and III | d) I and II |
| e) I, II and III | |

5. Which one of the following equalities is correct?

- $21 + 5 = (5 \times 2) - 3$
- $5 + 2 = (2 \times 3) - 2$
- $21 + 2 = (2 \times 5) - 3$
- $21 + 3 = (5 \times 2) - 3$
- $21 + 2 = (2 \times 5) - 3$

6 Examine the following statements carefully in which two of these statements cannot be true, but can both be false.

- Some nations wish for peaceful co-existence.
- All nations wish for peaceful coexistence.
- Some nations are not wishing for peaceful coexistence
- No nation is wishing for peaceful coexistence.

Select the correct answer using the codes given below :

Codes :

- | | |
|------------|------------|
| a) 1 and 2 | b) 2 and 4 |
| c) 1 and 3 | d) 3 and 4 |
| e) 1 and 4 | |

7. Examine the following three statements :

In a class of 100 students

- 20 got less than 40% marks.
- 25 got more than 60% marks.
- 40 got more than 50% marks.

Which of the following conclusions can be drawn from the above statements?

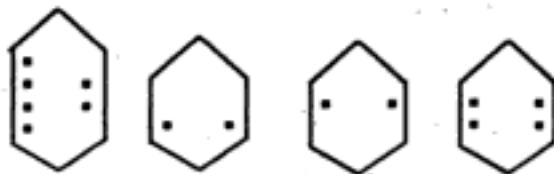
- 5 students scored between 40% and 60%
- 15 students scored between 50% and 60%
- 45 students scored less than 60%
- 65 students scored more than 50%
- None of these

8. A hexagonal sheet of paper has been folded and punched as shown in the problem figures. Which one of the following answer figures would appear, when the sheet is opened?

Problem Figures :



Answer Figures :



9. There are some balls of red, green and yellow colour lying on a table. There are as many red balls as there are yellow balls. There are twice as many yellow balls as there are green ones. The number of red balls is/are

- equal to the sum of yellow and green balls.
- double the number of green balls.
- equal to yellow minus green balls.
- cannot be ascertained.
- double the number of yellow balls.

10. Leafletting and speech making on government property should be outlawed. Radicals and fanatics have no right to use public property when peddling their unsavoury views. The argument about is based on the assumption that

- radicals and fanatics prefer using public property when disseminating their views
- all those who leaflet and make speeches on government property are radicals and fanatics.
- legal restrictions that apply to one group need not apply equally to all.
- political activity that interferes with the orderly functioning of government should be protected by law.
- None of these

11. The given numbers follow certain pattern. The next number in the series will be

5 6 7 8 10 11 14

- 15
- 16
- 17
- 18
- 20

12. Compare the knowledge of persons X, Y, Z, A, B and C in relation to each other.

- a. X knows more than A.
- b. Y knows as much as B.
- c. Z knows less than C.
- d. A knows more than Y.
- e. C knows more than X.

The best knowledgeable person amongst all is

- a) A b) X
- c) Y d) C
- e) Z

13. Examine the following statements :

- a) None, but students are members of the club.
- b) Some members of the club are married persons.
- c) All married persons are invited for dance.

Which one of the following conclusions can be drawn from the above statements ?

- a) All students are invited for dance
- b) All members of the club are students
- c) All married students of the club are invited for dance
- d) All members of the club are married persons
- e) All numbers are Bachelors

14. Examine the following statements in which two statements cannot both be true but can both be false :

- 1) All women are generous
- 2) Some women are generous
- 3) No woman is generous
- 4) Some women are not generous

Select the correct answer using the codes given below :

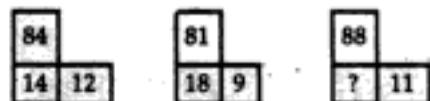
Codes :

- | | |
|------------|------------|
| a) 1 and 3 | b) 1 and 4 |
| c) 2 and 3 | d) 3 and 4 |
| e) 2 and 4 | |

15. 'All that glitters is not gold' means

- a) Not all metals glitter
- b) Glittering things may be deceptive
- c) Only gold glitters
- d) Non-metals also glitter
- e) Glittering metals are gold

16. The numbers in the given figure follow a fixed pattern. The missing number (?) is

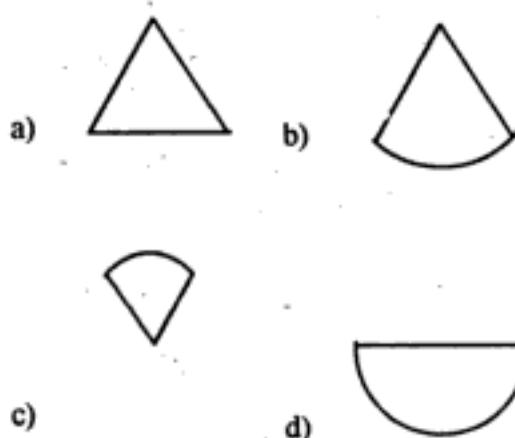


- a) 81
- b) 61
- c) 21
- d) 16
- e) 20

17.



If a cone of semi-vertical angle 30° is cut along its generator and developed into a plane surface, then which one of the following figures is the correctly shaped plane surface ?

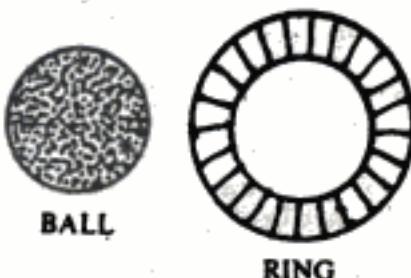


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- d) A learned faster than B throughout the task
 e) A and B are not all learning
27. Consider the Venn diagram given below :
-
- The numbers in the Venn diagram are persons reading the newspapers indicated. The diagram is drawn after surveying 50 persons. In a population of 10,000 how many can be expected to read at least two newspapers?
- Choose the correct answer from the codes given below :
- Codes :
 a) 5000 b) 6250
 c) 6000 d) 5400
 e) 5200
28. In an examination, every candidate took Physics or Mathematics or both. 65.8% took Physics and 59.2% took Mathematics. The total number of candidates was 2000. How many took both Mathematics and Physics?
 a) 750 b) 700
 c) 550 d) 500
 e) 600
29. A point is selected at random inside a rectangle and perpendiculars are drawn on each side from the point. The sum of these perpendiculars is 24 cm. If the length of the rectangle is 3 times the width, the perimeter of the rectangle will be
 a) 36 cm b) 42 cm
 c) 24 cm d) 48 cm
 e) 84 cm
30. If you are the ninth person in the queue starting from either end the number of persons in the queue is
 a) 10 b) 15
 c) 17 d) 19
 e) 16
31. A father is now three times as old as his son. Five years back, he was four times as old as his son. The age of the son is
 a) 12 b) 15
 c) 18 d) 20
 e) 25
32. If the product of two numbers is 320 and their ratio is 1:5, what is the difference between the squares of these two numbers?
 a) 1024 b) 1356
 c) 1536 d) 1635
 e) 1056
33. A rectangular sheet of aluminium foil measuring 5 cm by 10 cm is rolled into a cylinder of height 10 cm. If the cost of painting the cylinder is Rs.2/- per sq. cm, then the cost of painting the outer surface of the cylinder will be
 a) Rs.400/- b) Rs.200/-
 c) Rs.150/- d) Rs.100/-
 e) Rs.1000/-
34. The average salary of skilled employees in a firm is Rs.520 and that of the unskilled employees is Rs.420. If the average salary of both the groups of employees is Rs.500, then the percentage of skilled employees in the firm is
 a) 50 b) 20
 c) 80 d) 70
 e) 30

35. Consider the figures of a metal ball and a metal ring given below:



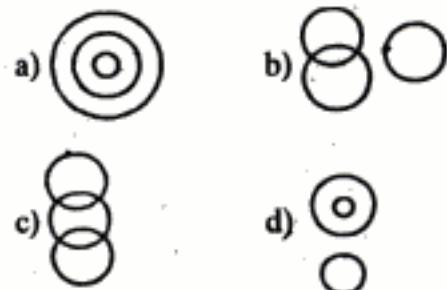
The metal ball can just pass through the hole of a metal ring formed out of a strip. When the ball is heated it gets stuck. But when the metal ring is heated

- a) the ball can still pass through it because the ring diameter expands on heating
 - b) the ball gets stuck because the diameter of the hole decreases on expansion
 - c) the ball will still pass through because the hole diameter does not change
 - d) the ball will pass through because there is no change in the ring
 - e) the ball will pass through as its size reduced
36. Given below are voting percentages of a political party secured in three successive elections to the Lok Sabha :

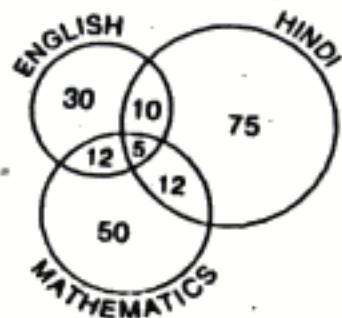
Years	1984	1989	1991
Percentages of Votes	7.4	11.4	22.4

The party which secured these percentages of votes was

- a) Congress (I)
 - b) Bahujan Samaj Party
 - c) Bharatiya Janata Party
 - d) Communist Party of India (Marxist)
 - e) None of these
37. Which one of the following four logical diagrams represents correctly the relationship between musicians, instrumentalists, violinists?



38. Consider the diagram given as follows. Five hundred candidates appeared in an examination comprising tests in English, Hindi and Mathematics. The diagram gives the number of candidates who failed in different tests. What is the percentage of candidates who failed in at least two subjects?

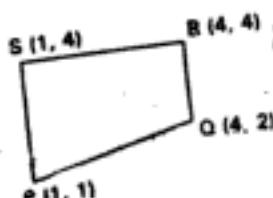


- a) 7.8
 - b) 0.078
 - c) 6.8
 - d) 1.0
 - e) .78
39. The surface area of a cube is 216 sq.m. What is its volume?
- a) 100 cu m
 - b) 216 cu m
 - c) 480 cu m
 - d) 512 cu m
 - e) 36 cu m
40. A student has 60% chance of passing in English and 54% chance of passing in both English and Mathematics. What is the percentage probability that he will fail in mathematics?
- a) 12
 - b) 36
 - c) 4
 - d) 10
 - e) 14
41. A table has three drawers. It is known that one of the drawers contains two silver coins, another contains two gold coins and the third one contains a silver coin and a gold coin.

One of the drawers is opened at random and a coin is drawn. It is found to be a silver coin. What is the probability that the other coin in the drawer is a gold coin?

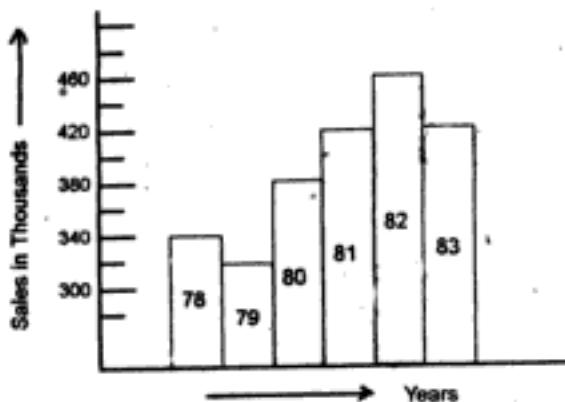
- a) 0.25
- b) 1.00
- c) 0.50
- d) 0.60
- e) .33

42. In the Cartesian plane four points P, Q, R, S have coordinates (1,1), (4,2), (4,4) and (1,4). The area of the quadrilateral PQRS is



- a) 9
- b) 7.5
- c) 4.5
- d) impossible to find unless the lengths of the diagonals are known
- e) 8.5

43. The following figure represents sales (in thousands) over the period 1978 to 1983:



The sales in 1981 exceeded that in 1979 by

- a) Rs. One hundred
- b) Rs. Ten thousand
- c) Rs. One lakh
- d) Rs. Ten lakhs
- e) Rs. One crore

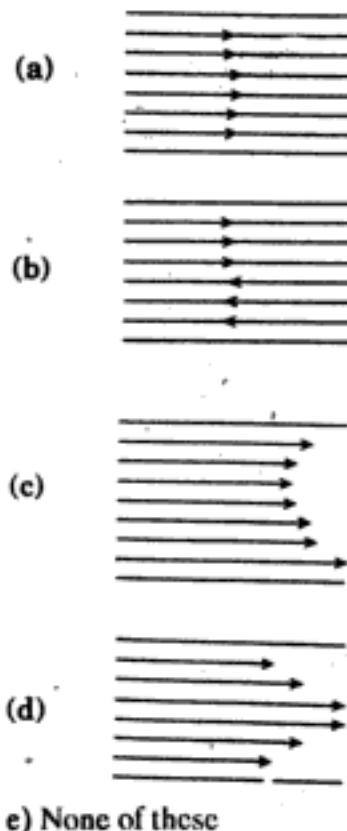
44. In an accurate clock, in a period of 2 hours 20 minutes, the minute hand will move over

- a) 520°
- b) 320°
- c) 840°
- d) 140°
- e) 820°

45. If the price of a television set is increased by 25%, then by what percentage should the new price be reduced to bring the price back to the original level?

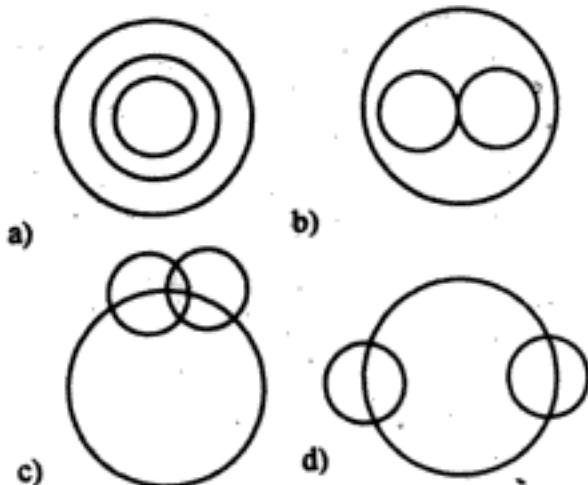
- a) 15%
- b) 25%
- c) 20%
- d) 30%
- e) 0%

46. A liquid is flowing in a streamlined manner through a cylindrical pipe. Along a section containing the axis of the pipe, the flow profile will be

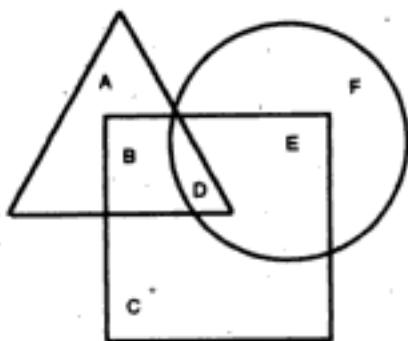


- e) None of these

47. Which one of the following Venn diagrams correctly illustrates the relationship among the classes: Carrot, Food, Vegetable?

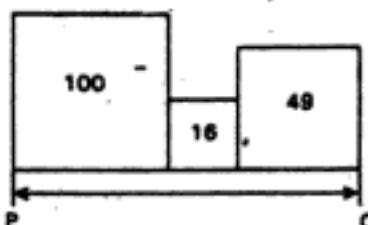


48. In the given figure, the triangle represents girls, the square represents sports persons and the circle represents coaches. The portion in the figure which represents girls who are sports persons but not coaches is the one labelled



- a) A
- b) B
- c) D
- d) E
- e) C

49. The following figure contains three squares with areas of 100, 16 and 49 lying side by side as shown. By how much should the area of the middle square be reduced in order that the total length PQ of the resulting three squares is 19?



- a) 12
- b) 4
- c) 2
- d) $\sqrt{2}$
- e) 10

50. A man starts walking in the north easterly direction from a particular point. After walking a distance of 500 metres, he turns southward and walks a distance of 400 metres. At the end of this walk, he is situated

- a) 300 metres north of the starting point
- b) 100 metres north-east of the starting point
- c) 300 metres east of the starting point
- d) 100 metres north of the starting point
- e) 300 metres west of the starting point

PROBATIONARY OFFICERS' (B.S.R.B., DELHI) EXAM. HELD IN JANUARY, 1997

TEST OF REASONING

1. Try this coaching class and you will not repent later. Which of the following, if true, would support and strengthen this statement?
- (i) The class is centrally located.
 - (ii) Some teachers who teach in the class have good background.
 - (iii) All the teachers in the class teach the subject very well.
 - (iv) Students get personal attention and feedback.
 - (v) The class gifts a calculator to first 100 students.
- a) Only (i), (ii) and (iii)
 - b) Only (iii) and (iv)
 - c) Only (i), (ii) and (v)
 - d) Only (iv) and (v)
 - e) Only (i) and (ii)

Directions : (Qs.2-6) : Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Mark answer (a), if the inference is "definitely true", i.e., it properly follows from the statement of facts given; mark answer (b), if the inference is "probably true" though not "definitely true" in the light of the facts given; mark answer (c) if the data are inadequate, i.e., from the facts given you cannot say whether the inference is likely to be true or false; mark answer (d) if the inference is "probably false" though not definitely false in the light of the facts given; mark answer (e), if the inference is definitely false" i.e., it cannot be possibly be drawn from the facts given or it contradicts the given facts.

The importance of water as a valuable resource for agriculture can never be over-emphasised. Being so, it has rightly been engaging serious attention of our planners and policy makers with the result we have today the largest irrigated area in the world-next only to China. From 23.2 million hectares of 1951-52 which marked the beginning of planned development, the gross irrigated area in our country has gone to over 70 million hectares, registering over 300 per cent increase during the last three and a half decades of planned period. It now covers nearly one-third of cultivated area.

- 2. In future there is a possibility of further increase in the area under irrigation in India.
- 3. India has not to give more importance to management of water resources in future.
- 4. Currently, the total cultivated area is approximately in the range of 200 million hectares or so.
- 5. Currently our planners and policy makers are No. 2 in the world.
- 6. Our planners and policy makers have still not given attention to the uncultivated land.

Directions (Qs.7-9) :

- (I) There are six friends A,B,C,D,E and F.
- (II) Each one is proficient in one of the games, namely, Badminton, Volleyball, Cricket, Hockey, Tennis and Polo.
- (III) Each owns a different coloured car, namely, yellow, green, black, white, blue and red.
- (IV) D plays polo and owns a yellow coloured car.

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16. Who has taken the lowest number of wickets?

- a) P
- b) L
- c) M
- d) O
- e) Cannot be determined

17. An application was received by inward clerk in the afternoon of a week day. Next day he forwarded it to the table of the Senior clerk, who was on leave that day. The Senior clerk next day evening put up the application to the desk officer. Desk officer studied the application and disposed off the matter on the same day, i.e. Friday. Which day the application was received by the inward clerk?

- a) Tuesday
- b) Earlier week's Saturday
- c) Wednesday
- d) Monday
- e) None of these

Directions (Qs. 18-24) : Read the following information carefully and answer the questions given below.

Following are the conditions for allotment of flats built by Town Council in the newly developed area of city-Gurgaon. The applicant must -

- a) produce domicile certificate of the state.
- b) be employed or self-employed in Gurgaon for a minimum of 5 years.
- c) be ready to pay the entire amount in 5 years period.
- d) not be owner or co-owner (if spouse is owner) of residential accommodation in the city limits of Gurgaon.
- e) not be less than 35 years of age as on December 31, 1996.

In case of applicant who satisfies all other criteria except -

- (I) at (a) above, be referred to the President of Town Council.
- (II) at (b) above, but is ready to produce ration card for last five years, should be

referred to Vice-Chairman of the House Allotment Committee.

- (III) at (c) above, but is freedom fighter or ex-serviceman or first relation i.e., son/daughter/husband/wife of freedom fighters / ex-servicemen, should be referred to Chairman of House Allotment Committee who can give concession for payment upto 15 years in such cases.

The last date for receipt of application was December 31, 1996. Conditions set out in terms of age or duration of stay, are to be fulfilled as on December 31 1996. Based on these criteria and information provided below, decide the course of action in each case. You are not to assume anything. If the data provided is not adequate to decide the given course of action, your answer will be "data inadequate". The cases are given to you as on 1.1.1997.

18. Maganlal is 38 years old senior clerk in the local builder's office in Gurgaon. He has put in service of 13 years but still does not own a house. He has produced domicile certificate and is ready to pay the entire amount in 8 years. He is nephew of freedom fighter Jaganlal who stays in the nearby village.

- a) Do not allot flat
- b) Data inadequate
- c) Refer to Vice-Chairman
- d) Refer to Chairman
- e) Allot flat

19. Ms. Rima Mohanty is daughter of a renowned freedom fighter from other State. She is domiciled in the State and employed in the town council of Gurgaon for the last 6 years. She can pay the entire amount in 5 years. She has completed 34 years as on December 10, 1994. She does not own a house in Gurgaon.

- a) Refer to Chairman
- b) Allot flat
- c) Do not allot flat
- d) Refer to President
- e) Data inadequate

- 20.** Shamil Hasan is an ex-serviceman who is native of Gurgaon. He stays in a rented house and is working as security officer in a factory for the last two years after his retirement from the army at the age of 35 years. He has a ration card issued to him recently. He is ready to pay the entire amount in 5 years.
- Allot flat
 - Refer to Chairman
 - Do not allot flat
 - Data inadequate
 - Refer to President
- 21.** Mrs. Gouri Datta aged 45 is the wife of an ex-serviceman. She has been staying in rented house in Gurgaon for last 10 years. She is having certificate of domicile of the State. She is not employed anywhere. She is ready to pay the entire amount in 10 years.
- Refer to Chairman
 - Allot flat
 - Do not allot flat
 - Refer to Vice-Chairman
 - Data inadequate
- 22.** Ms. Divya Lahiri is domicile of the State, a married woman of 36 years who has been running a beauty parlour in the city since 4th March, 1992. Her husband is employed in a nearby city but both of them do not own a house in Gurgaon. She can pay the entire amount in 5 years.
- Allot flat
 - Data inadequate
 - Do not allot flat
 - Refer to Chairman
 - Refer to Vice-Chairman
- 23.** Indrajeet Lal is a young businessman, domicile of the state, was born and brought up in Gurgaon. He can pay the entire amount in less than three years, if required. He has opened his shop on his 26th birthday, i.e., on 23rd February 1989. He stays with his father but is not having any ownership rights in the house owned by his father.
- Data inadequate
 - Refer to Chairman
 - Refer to Vice-Chairman
 - Do not allot flat
 - Allot flat
- 24.** R.C. Bhargav, the son of an industrialist from other state who has set his factory in 1990, has a domicile certificate of the state. He is ready to pay the entire amount in 4 years, if required. He does not own a house in Gurgaon city limits but his wife owns a flat in Gurgaon. His date of birth is 11.11.1960.
- Do not allot flat
 - Refer to Chairman
 - Refer to President
 - Allot flat
 - Data inadequate
- 25.** "In this company, 60% of the employees are males, 40 percent are females, 80 per cent of the employees are sincere and 40 per cent of the employees are from this city-Rawalpura". Which of the following statements is definitely TRUE ?
- All female employees are from Rawalpura
 - 20 per cent of female employees are not sincere
 - All male employees are sincere
 - All male employees are from out of station
 - None of these
- 26.** If 'all chairs are drums, some drums are taps' is assumed to be true which of the following logically follows?
- All chairs are taps
 - All taps are chairs
 - No chair is tap
 - Some taps are chairs
 - None of these

Directions (27-31) : Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Mark answer (a) if the inference is "definitely true", i.e., it properly follows from the statement of facts given; mark answer (b) if the inference is "probably true" though not definitely true" in the light of the facts given; mark answer (c) if the data are

Inadequate, i.e., from the facts given you cannot say whether the inference is likely to be true or false; mark answer (d) if the inference is "probably false" though not "definitely false" in the light of the facts given; mark (e) if the inference is "definitely false" i.e., it cannot possibly be drawn from the facts given or it contradicts the given facts.

In 1994-95, India consumed 65.3 million tonnes of petro products, out of which consumption of diesel was 28.3 million tonnes. The annual increase in diesel consumption from 1990-91 has been 8.5 percent as against 4.7 percent for all petro products.

As per 1993-94 data, 11 percent of diesel consumption is by industry, plantation, etc. 8 percent by road transport, 5.5 percent by the railways and 75 percent by unspecified users. The consumption by farmers for tractors and irrigation pumps has been roughly 5.7 million tonnes valued at about Rs. 5,500 crore. The agricultural produce in 1994-95 valued at Rs. 2,23,076 crore.

The consumption of diesel in 1995-96 is estimated at 32 million tonnes whereas consumption of petrol accounts for 14 percent of diesel consumption.

27. If the cost of diesel is increased along with small matching increase in procurement price, the farmer may be marginally affected.
28. The percentage increase in the consumption of diesel in India is equal to that of all petro products.
29. One rupee increase in diesel price will generate as much revenue as roughly seven rupee increase in petrol price.
30. The consumption of petrol by farmers for agricultural purpose is approximately 50 percent less than use of diesel.

31. The consumption of petrol for 1995-96 can be estimated to be in the range of 14 million tonnes.

Directions (Qs.32-36) : In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (a) if only assumption I is implicit; give answer (b) if only assumption II is implicit; give answer (c) if either I or II is implicit ; give answer (d) if neither I nor II is implicit and give answer (e) if both I and II are implicit.

32. Statement :

If Dinesh has finished reading the instructions then let him begin the activities accordingly.

Assumptions :

- I. Dinesh would understand the instructions.
- II. Dinesh is capable of performing the activities.

33. Statement :

We need not worry about errors but we must try to learn from our errors.

Assumptions :

- I. Errors may take place when we are carrying out certain work.
- II. We are capable of benefitting from the past and improve our chances of error free work.

34. Statement :

It is desirable to put the child in school at the age of 5 or so.

Assumptions :

- I. At that age the child reaches appropriate level of development and ready to learn.

II. The schools do not admit children after six years of age.

35. Statement :

Even with the increase in the number of sugar factories in India, we still continue to import sugar.

Assumptions :

- I. The consumption of sugar per capita has increased in India.
- II. Many of the factories are not in a position to produce sugar to their fullest capacity.

36. Statement :

No regular funds have been provided for welfare activities in this year's budget of the factory.

Assumptions :

- I. The factory does not desire to carry out welfare activities this year.
- II. Budgetary provision is necessary for carrying out welfare activities.

37. One morning after sunrise, Gangadhar was standing facing a pole. The shadow of the pole fell exactly to his right, which direction he was facing?

- a) East b) South
- c) West d) Data inadequate
- e) None of these

38. In an examination Raj got more marks than Moti but not as many as Meena. Meena got more marks than Ganesh and Rupali. Ganesh got less marks than Moti but his marks are not the lowest in the Group. Who is second in the ascending order of marks?

- a) Meena b) Rupali
- c) Raj d) Cannot be determined
- e) None of these

39. Pointing to a gentleman, Deepak said, "His only brother is the father of my daughter's father". How is the gentleman related to Deepak?

- a) Father b) Grandfather
- c) Uncle d) Brother-in-law
- e) None of these

Directions (Qs.40-43) : Study the information and answer the questions given below.

On a playing ground, Dev, Kumar, Nilesh, Ankur and Pintu are standing as described below facing the North.

- (i) Kumar is 40 metres to the right of Ankur.
- (ii) Dev is 60 metres to the South of Kumar.
- (iii) Nilesh is 25 metres to the West of Ankur.
- (iv) Pintu is 90 metres to the North of Dev.

40. Who is to the North-East of the person who is to the left of Kumar ?

- a) Dev b) Nilesh
- c) Ankur d) Either Nilesh or Dev
- e) None of these

41. If a boy walks from Nilesh meets Ankur followed by Kumar, Dev and then Pintu, how many metres has he walked if he has travelled the straight distance all through?

- a) 215 metres b) 155 metres
- c) 245 metres d) 185 metres
- e) None of these

42. How many pairs of letters are there in the word PICKLE which have as many letters between them in the word as in the alphabet?

- a) Two b) Three
- c) Four d) Five
- e) None of these

43. In a certain code CENTRAL is written as LARTNEC, how is SEMINAR written in that code?

- a) NARIMES b) MESIRAN
- c) RANIMES d) NARISEM
- e) None of these

44. Jatin is having good acting talent. We must send him for inter-school drama competition. Which of the following, if true, would support and strengthen this statement?

Hidden page

1997

ANSWERS

General Awareness

(Answers are given below with reference to the year 1997)

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. a | 2. e | 3. b | 4. d | 5. c | 6. c | 7. d | 8. b |
| 9. a | 10. c | 11. e | 12. c | 13. b | 14. d | 15. d | 16. b |
| 17. d | 18. e | 19. e | 20. c | 21. b | 22. b | 23. e | 24. d |
| 25. e | 26. c | 27. b | 28. b | 29. e | 30. b | 31. c | 32. b |
| 33. d | 34. d | 35. c | 36. a | 37. e | 38. c | 39. b | 40. e |
| 41. e | 42. b | 43. b | 44. d | 45. c | 46. b | 47. e | 48. e |
| 49. b | 50. a | | | | | | |

English

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. b | 2. d | 3. a | 4. d | 5. c | 6. a | 7. e | 8. b |
| 9. b | 10. e | 11. b | 12. a | 13. b | 14. c | 15. a | 16. b |
| 17. a | 18. a | 19. d | 20. d | 21. c | 22. d | 23. b | 24. d |
| 25. d | 26. b | 27. a | 28. c | 29. c | 30. e | 31. e | 32. a |
| 33. e | 34. a | 35. c | 36. c | 37. a | 38. a | 39. b | 40. c |
| 41. d | 42. d | 43. c | 44. c | 45. b | 46. c | 47. b | 48. e |
| 49. d | 50. c | | | | | | |

Quantitative Aptitude

- | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|
| 1. d | 2. c | 3. d | 4. b | 5. d | 6. b | 7. b | 8. b |
| 9. b | 10. a | 11. a | 12. d | 13. b | 14. a | 15. b | 16. d |

Sura's P.O (Q & A)

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 17. b | 18. b | 19. d | 20. a | 21. a | 22. a | 23. a | 24. b |
| 25. d | 26. d | 27. d | 28. d | 29. d | 30. c | 31. b | 32. c |
| 33. d | 34. c | 35. a | 36. c | 37. c | 38. a | 39. b | 40. d |
| 41. c | 42. b | 43. c | 44. c | 45. c | 46. d | 47. a | 48. b |
| 49. a | 50. c | | | | | | |

Test of Reasoning

- | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. b | 2. a | 3. c | 4. a | 5. e | 6. c | 7. c | 8. d |
| 9. b | 10. b | 11. b | 12. d | 13. c | 14. a | 15. b | 16. d |
| 17. c | 18. a | 19. b | 20. d | 21. e | 22. b | 23. d | 24. a |
| 25. e | 26. e | 27. c | 28. e | 29. c | 30. c | 31. e | 32. e |
| 33. e | 34. a | 35. b | 36. e | 37. b | 38. c | 39. c | 40. e |
| 41. a | 42. d | 43. c | 44. e | 45. c | 46. d | 47. e | 48. e |
| 49. e | 50. d | | | | | | |

EXPLANATORY NOTES (1997)

English

14. (b) It must be appreciated

We admired and appreciated and not: we admired and appreciating

15. (a) After is a preposition. There must be a noun or a noun equivalent after a preposition so we must say **after working**

16. (b) (support) at persistent efforts is wrong. At is inappropriate. Say: supported by persistent efforts with is also acceptable.

17. (a) The position of Not only (before the judges) suggests that others also acquitted him
Say : The Judges not only acquitted him...

18. (a) Not : had repeated

Say : Would have repeated.

19. (d) Say : their luck

20. (d) say : become very important.

21. (c) Say : indefinitely

Indefinite is an adjective: it cannot modify the verb **postpone**. So we must use the adverb **indefinitely**.

22. (d) Mixing up of tenses

Say : did not need their services.

23. (b) Say : different people with different jobs.

Quantitative Aptitude

9. (b) Let the no. of Yellow balls be : X

$$= 11 + 4 = 15$$

∴ No. of Red balls : X

12. (d) C > X > A > Y = B & C > Z

Also No of yellow balls =

∴ C is best knowledgeable person.

2(No. of Green balls)

16. (d) In fig (i) $\frac{14}{2} \times 12 = 7 \times 12 = 84$

∴ No. of Red balls = X = No. of yellow balls

fig (ii) $\frac{18}{2} \times 9 = 9 \times 9 = 81$

= 2 (No. of green balls)

∴ in fig (iii) $\frac{16}{2} \times 11 = 8 \times 11 = 88$

= Double the number of green balls.

11. (a) The sequence in alternate terms of given series is + 2, + 3, + 4.

20. (a) In the figure, normal to plane will be perpendicular to plane, hence parallel to axis of cone. Hence angle between them is 0.

∴ Next number in the series

25. (d) Let the age of the younger son be x .

Then the age of the elder son = $(x + 15)$

Age of father : $2(x + 15) = 2x + 30$

Ten years hence :

$$\begin{aligned}\text{Age of father} &= 2x + 30 + 10 \\ &= 2x + 40\end{aligned}$$

Younger son : $x + 10$

Then father = $3 \times$ younger son

$$2x + 40 = 3(x + 10)$$

$$2x + 40 = 3x + 30$$

$$x = 10$$

$$\text{Age of father} = 2x + 30 = 50.$$

27. (d) Out of 50 :

No. of people who read

$$\text{I \& II} = 12$$

$$\text{II \& III} = 5$$

$$\text{III \& I} = 8$$

Total : 25

$$\begin{aligned}\text{No. of people who read all the 3 papers} &= 2 \\ \therefore \text{No. of people who read 2 or more papers} &= 27\end{aligned}$$

$$\text{For } 10,000 = \frac{27}{50} \times 10,000 = 5400$$

28. (d) If 100 is the total, $n(P)$ stands for the no. of students who took physics, $n(M)$ for Maths students and $n(P \cap M)$ for those who opted both then,

$$n(PUM) = n(P) + n(M) - n(P \cap M)$$

$$100 = 65.8 + 59.2 - n(P \cap M)$$

$$\therefore n(P \cap M) = 125 - 100 = 25$$

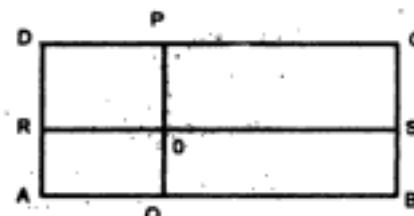
i.e., 25% took both

$$= 2000 \times \frac{25}{100} = 500$$

29. (d) ABCD is a rectangle, O any pt, OP, OQ, OR, OS are perpendiculars from O to the four sides.

then, $OP + OQ = \text{breadth}$

$OR + OS = \text{length}$



$$\therefore OP + OQ + OR + OS = L + B = 24.$$

$$\therefore \text{perimeter} = 2(6 + 18) = 48$$

Note that $L = 3B$ is not necessary to find the perimeter.

30. (c) Since there are 8 on one side and another 8 on the other side of you, there must be 17 in all in the 'Q'.

31. (b) If the son is x yrs old, father is $3x$.

$$5 \text{ yrs ago, son} : x - 5$$

$$\text{father} : 3x - 5$$

$$(3x - 5) = 4(x - 5)$$

$$3x - 5 = 4x - 20$$

$$x = 15$$

Now the age of the son is 15 years

32. (c) $N_1 : N_2 = 1 : 5$

$$\text{Let } N_1 = x, N_2 = 5x$$

Product $x \times 5x = 5x^2 = 320$

$$x^2 = 64$$

$$x = 8$$

The nos. are 8, 40.

$$\therefore 40^2 - 8^2 = 1536.$$

33. (c) Since the sheet is rolled into a cylinder, the surface area of the cylinder = the area of the sheet.

$$= 10 \times 5 = 50 \text{ cm}^2$$

Cost of painting the outer surface :

$$= 50 \times 2 = \text{Rs. } 100$$

34. (c) Let the total no of employees be 100

If skilled employees : x ; unskilled employees : $(100 - x)$

Total Salary of x skilled employees = $520x$

For the $(100 - x)$ unskilled = $420(100 - x)$

$$= 42000 - 420x.$$

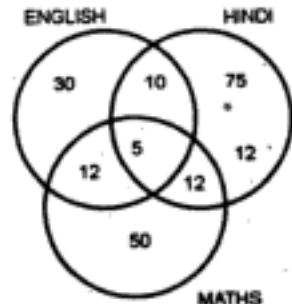
$$\text{Total wages} = 520x + 42000 - 420x = 42000 + 100x$$

But the total wages of all = $100 \times 500 = 50000$

$$\therefore 42000 + 100x = 50000$$

$$x = 80.$$

38. (a)



Those who failed in 2 subjects =
 $10 + 12 + 12 = 34$

In 3 subjects = 5

No. who failed in 2 or 3 subjects = 39

No. appeared = 500

$$\text{Percentage of failures} = \frac{39}{500} \times 100 = 7.8$$

39. (c) Total surface area of a cube = $6a^2 = 216$

$$a^2 = 36 \quad a = 6$$

$$\text{Its volume} = a^3 = 6 \times 6 \times 6 = 216 \text{ m}^3$$

40. (d) Probability of passing in English $P(E) = 60\%$

Probability of Passing in Mathematics = $x\%$ (say)

Probability passing in both

$$= \frac{x \times 60}{100 \times 100} = \frac{6x}{1000} = \frac{54}{100}$$

$$\therefore x = \frac{54}{100} \times \frac{1000}{6} = 90$$

i.e., Probability of passing in Maths = 90%

Probability of failing in maths. = 10%

41. (c) I : S + S

II : G + G

III : S + G

The coin was a silver coin.

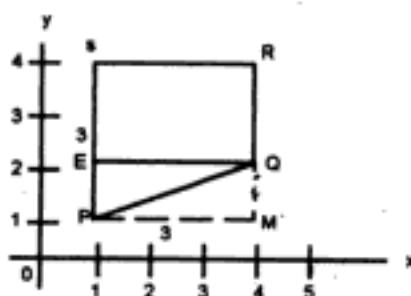
The drawer should be I or III.

If it is I, the other coin is S, if it is III other coin is G.

\therefore It must be either S or G.

Probability that it is Gold = $\frac{1}{2} = 0.5$

42. (b)



If PQRS are the 4 points , and QE is perpendicular to PS then EQRS is a rectangle whose area = $3 \times 2 = 6$ sq. units.

PQE is a triangle whose area

$$= \frac{1}{2} \times 1 \times 3 = \frac{3}{2}$$

$$\text{Area of the Quadrilateral} = 6 + \frac{3}{2} = 7.5 \text{ sq. units}$$

44. (c) In 1 hour the minute hand will move through 360° .

$$\text{In } 2 \frac{20}{60} \text{ hrs } 360 \times \frac{7}{3} = 840^\circ$$

45. (c) Let the original price be Rs. 100

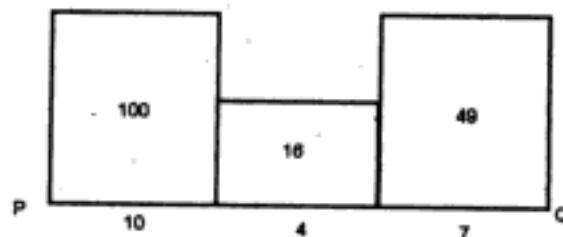
It is increased by 25%

Its new price = Rs. 125

It should be brought back to Rs. 100 from 125

$$\text{Percentage reduction} = \frac{25}{125} \times 100 = 20$$

49. (a)

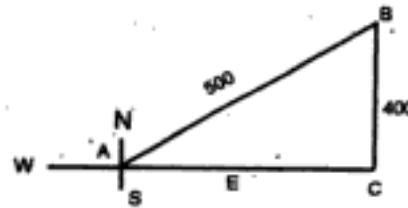


The middle square side must be reduced to 2. When it is reduced to a side of 2 units, area of the square will become 4 sq. units.

But area of original middle square is 16 sq units.

\therefore Reduction in Area = $16 - 4 = 12$ sq. units.

50. (c)



He starts at A goes to B, then to C.

Clearly ABC is a rt. angled triangle

AC = 300

He is 300 mts. East of the starting point

Test of Reasoning

7-9	Six Friends	Proficient Game	Colour of Car
	By VIII A	- Cricket	- Black
	By VII B	- Hockey	- Red
	By V C	- Volley Ball	- Green

7. (c)

By IV	D - Polo	- Yellow
By VI	E - Badminton	- White
By V & VII F	- Tennis	- Blue

8. (d)

9. (b)

10-11 Executives reach the office in this order

Q, U, P, T, W, S, R

10. (b)

11. (b)

15-16 Players in the ascending order of runs scored : N, M, K, O, L

Players in the descending order of wickets taken L, M, N, K, O

38. (c) Raj marks > Moti marks

Raj marks < Meena marks

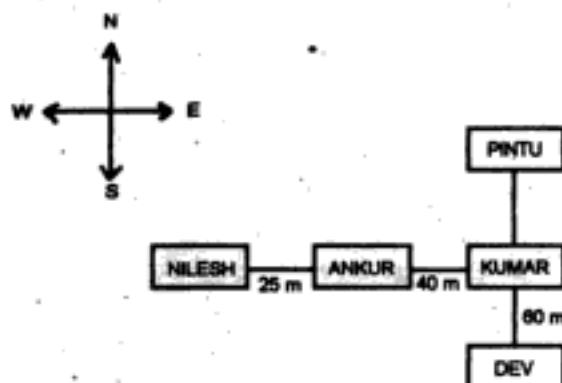
Meena > Ganesh

Meena > Rupali

Ganesh < Moti

Hence Rupali < Ganesh < Moti < Raj < Meena

40-43



40. (e)

41. (a)

	No. of letters in between in alphabets	No. of letters in between in the word Pickle
(L,P)	3	3
(I, K)	1	1
(I,L)	2	2
(K,L)	0	0

(∴ Ganesh marks is not the lowest)

PROBATIONARY OFFICERS' (BANGALORE) EXAM.

HELD IN MARCH 1998

GENERAL AWARENESS

- 1. Which of the following States in India has become the first State to get the largest World Bank loan of about \$ 6,000 million?**
 - a) Bihar
 - b) Uttar Pradesh
 - c) Orissa
 - d) Haryana
 - e) None of these

 - 2. Ms. Jenny Shipley has the honour of becoming the first woman Prime Minister of**
 - a) France
 - b) Canada
 - c) New Zealand
 - d) Australia
 - e) None of these

 - 3. Which of the following is caused by bacterial infection?**
 - a) Cancer
 - b) Tetanus
 - c) Rabies
 - d) Malaria
 - e) None of these

 - 4. The Fourth Federation Cup Hockey matches were organised at which of the following place in December 1997?**
 - a) Mumbai
 - b) Calcutta
 - c) Cochin
 - d) Hyderabad
 - e) New Delhi

 - 5. As per the World Education Report (1997), which of the following educational institutes has been ranked as No.1 in the Asia-Pacific Region?**
 - a) Jamnalal Bajaj Institute of Management Science, Mumbai
 - b) Indian Institute of Technology, Mumbai
 - c) Motilal Nehru Regional Engineering College, Allahabad
 - d) Indian Institute of Science, Bangalore
 - e) None of these

 - 6. World Human Rights Day is celebrated on which of the following days?**
 - a) 26th December
 - b) 5th December
 - c) 10th December
 - d) 15th December
 - e) 8th December

 - 7. Which of the following Articles of the Indian Constitution provides special status to Jammu and Kashmir**
- a) 380**
 - b) 320**
 - c) 370**
 - d) 256**
 - e) None of these**
- 8. Sportstar, the sports magazine published from India, has chosen who among the following as the sports person of the year for 1996, the announcement for which came recently?**
 - a) Shiny Wilson
 - b) Leander Paes
 - c) Sachin Tendulkar
 - d) Vishwanathan Anand
 - e) None of these

 - 9. INS Tarangini, a new training ship, has been inducted in which of the following Commands of the Indian Navy recently?**
 - a) Eastern
 - b) Western
 - c) Central Command
 - d) Southern
 - e) None of these

 - 10. Lumbini, which was in the news recently, is the birth-place of**
 - a) Gautam Buddha
 - b) Parshwa Nath
 - c) Chaitanya Mahaprabhu
 - d) Mahavir Swami
 - e) None of these

 - 11. If the readings in a barometer fall down suddenly, then it is an indication that the weather is going to be**
 - a) dry and calm-quiet
 - b) cloudy with mild rain
 - c) very stormy
 - d) extremely hot
 - e) extremely cool

 - 12. Peter Nicolas, who was in the news recently, is associated with which of the following games/sports?**
 - a) Hockey
 - b) Cricket
 - c) Squash
 - d) Badminton
 - e) None of these

 - 13. For how many people in India, in terms of percentage, farming and agricultural activities are the main source of income?**
 - a) 80%
 - b) 42%
 - c) 30%
 - d) 73%
 - e) 69%

- 14. Sugarcane is mainly produced in**
- Maharashtra
 - Uttar Pradesh
 - Kerala
 - Tamilnadu
 - Karnataka
- 15. Which of the following organisations has chosen Chennai Rajiv Gandhi National Institute of Youth Development as its apex training and research body at the international level?**
- WHO
 - UNESCO
 - UNCTAD
 - UNICEF
 - World Red Cross Society
- 16. Who among the following prepares the estimates of National Income in India?**
- Central Statistical Organisation
 - National Centre for Policy Research
 - National Sample Survey
 - Planning Commission
 - Reserve Bank of India
- 17. Vishwanathan Anand played the recently-held finals of FIDE World Chess Championship with**
- Alexander Ehlifert
 - Boris Gelfand
 - Anatoly Karpov
 - Adams
 - None of these
- 18. Who among the following has edited the book People's Power in Practice, released recently?**
- Nirad C. Chaudhuri
 - Jyoti Basu
 - Nikhil Chakravorty
 - Mani Shankar Aiyer
 - I.K. Gujral
- 19. The Tenth International Film Festival for Children and Young People was organised at which of the following places recently?**
- Hyderabad
 - New Delhi
 - Calcutta
 - Jaipur
 - Mumbai
- 20. Which of the following is not true about the convertibility of a currency?**
- This means currency is freely exchangeable for another currency.*
 - Full convertibility normally leads to a larger outflow of funds from the country.*
 - For developing countries this may create a difficult balance of payments problem.*
- All the three not correct
 - Only II
 - Only I
 - All the three are correct
- 21. e) Only III**
- 21. Which of the following Articles of the Indian Constitution ensures Freedom of the Press in India?**
- 327
 - 27
 - 19
 - 356
 - None of these
- 22. Who among the following has taken over as the President of Ireland and was recently in the news?**
- Thomas Pickering
 - Jim Bolger
 - Jenny Shipley
 - Mary McAleese
 - None of these
- 23. Which of the following pairs of scientists have won the Nobel Prize for Physics for 1997?**
- Robert C. Metron and Jens Skou
 - Claude Cohen Tannoudji and William Phillips
 - Stanely Prusiner and Myron Scholes
 - John Walker and Jody Williams
 - None of these
- 24. A cricket match at Indore could not be played recently because of poor pitch conditions. The match was being played between India and**
- England
 - New Zealand
 - Pakistan
 - Zimbabwe
 - Sri Lanka
- 25. Denis Sassou Nguesso, the former military dictator of which of the following countries, was able to become President of the country after a short bloody civil war recently?**
- Uganda
 - New Zealand
 - Congo
 - Angola
 - None of these
- 26. As per the World Development Report, 1997, which of the following does not have direct influence on the strengthening of the public sector of a country?**
- Male-female ratio in the population*
 - Effective and efficient delivery systems*
 - Motivated and capable staff/employees.*
- Both I and II
 - Only III
 - Only I
 - Only II
 - Both I and III
- 27. Doping test of the samples of urine is normally done to check which of the following?**
- To check the effect of drugs on memory of human beings.

- b) To ensure that heart functioning is normal in heart patients.
 c) To ensure that liver is functioning properly in the patients of liver cancer.
 d) To ensure that athletes have not taken performance-enhancing drugs.
 e) None of these
- 28.** Methew Samuel Kalarickal, who was recently honoured with Dr. B.C. Roy Award, is well-known for his pioneering work in which of the following fields?
 a) Radiotherapy b) Angioplasty
 c) Retina Transplantation
 d) Kidney Transplantation
 e) None of these
- 29.** As per the current figures, the annual increase in foodgrain production in India is about
 a) 1.2% b) 1.7%
 c) 0.5% d) 0.9%
 e) 1%
- 30.** India's annual population growth rate is about
 a) 2.7% b) 0.9%
 c) 2.2% d) 1%
 e) 1.9%
- 31.** Which of the following statements is true on banning the landmines?
 I. India has signed the treaty.
 II. USA does not want to sign the treaty.
 III. The treaty was kept open for signature in Ottawa in December 1997.
 a) Both II and III b) Both I and II
 c) Only III d) Only I
 e) Only II
- 32.** Which of the following represents the percentage increase in the production of cotton during 1992-97 as per figures released recently?
 a) 53% b) 47%
 c) 30% d) 35%
 e) 40%
- 33.** Revenue receipts during April-September 1997 increased only 5.3% against a much higher Budget estimates. What were the Budget estimates?
 a) 17% b) 15%
 c) 6% d) 12%
 e) None of these
- 34.** The Government of which of the following States in India has asked the private industries to adopt Government-run primary health centres and taluk/district hospitals so that better healthcare facilities can be provided to the public?
 a) Maharashtra b) West Bengal
 c) Tamilnadu d) Gujarat
 e) Orissa
- 35.** Which of the following gases is considered as a greenhouse gas and its effect on the environment was very much in the news recently?
 a) Hydrogen b) Chlorine
 c) Carbon dioxide d) Oxygen
 e) Ammonia
- 36.** Which of the following is not a reason of having 6% growth of the Indian economy during 1997-98?
 I. The industrial recovery during the year has been slower than expected.
 II. Agricultural sector is also likely to perform poorly.
 III. Sudden increase in Government expenditure due to general elections and implementation of Fifth Pay Commission recommendations.
 a) Only II b) Only I
 c) Both II and III d) Only III
 e) Both I and II
- 37.** Which of the following verdicts recently given by the Supreme Court of India has disappointed trade union leaders, civil liberty activists and political parties?
 I. Powers to CBI to investigate Government officials without prior permission from the Government.
 II. Ban of bandhs enforced by political parties, associations or organisations.
 III. Granting anticipatory bail only to those who have committed unbailable offences.
 a) Only II b) Only II and III
 c) Only I and II d) Only I
 e) Only III
- 38.** Bimal Jalan was holding which of the following posts immediately prior to his

- appointment as Governor of the Reserve Bank of India?**
- Economic Advisor to the Government of India
 - India's Representative at World Bank
 - Deputy Governor, RBI
 - Member-Secretary, Planning Commission
 - None of these
- 39. Which of the following represents the Forex assets of the Government of India as in end-November '97 (approximately in US \$ billion)?**
- 20.50
 - 19
 - 24.25
 - 32.75
 - 30
- 40. As per rough estimates, the number of direct tax assessees in India at present is around**
- 6.5 million
 - 5 million
 - 25 million
 - 12 million
 - 35 million
- 41. When did the space age begin with the launch of the Russian Sputnik?**
- Oct. 4, 1957
 - Oct. 5, 1750
 - Sept. 4, 1934
 - Oct. 2, 1952
 - None of these
- 42. Which one of the following rights was considered the "Heart and Soul" of the Constitution by Dr. Ambedkar?**
- Freedom of Speech
 - Right to Freedom of Religion
 - Right to Constitutional Remedies
 - Right to Equality
 - None of these
- 43. The satellite-based tele network POOLNET development in India will be able to link which of the following throughout the country?**
- About 11,000 Police Stations
 - All the Railway Stations
 - 1,000 Police Stations
 - 2,000 major Hospitals
 - None of these
- 44. The first Paulos Mar Gregarios Award was recently given to who among the following persons?**
- Yasser Arafat
 - Nelson Mandela
 - Sonia Gandhi
 - Mahathir Mohammad
 - Dalai Lama
- 45. Which of the following countries has refused to pay its arrears of contributions to the UN General Assembly, pending since long?**
- India
 - USA
 - France
 - UK
 - Germany
- 46. Which of the following statements is not correct regarding imports of gold by India?**
- Dubai is the main feeder market for India.*
 - India is the largest consumer of gold in the world.*
 - India imported approximately 67 tonnes of gold in Nov. 1997, which was a record.*
- Only III
 - Only I
 - Only II
 - All the three are correct
 - None of these
- 47. The F-7P fighter aircraft, which are being used by Pakistan Air Force, are manufactured and supplied by which of the following countries?**
- China
 - Russia
 - France
 - USA
 - UK
- 48. A special edition of the book Autobiography of an Unknown Indian was published in Nov. 1997. Why was it published in a special edition?**
- The book has become a monument as it reveals some historical facts about the British Raj in India.
 - The author entered his birth centenary year.
 - The author won the Booker Prize for 1997.
 - The book is rewritten by the author after a gap of 50 years.
 - None of these
- 49. Roman Prodi, who was on an official visit to India recently, is from**
- Italy
 - Russia
 - USA
 - France
 - UK
- 50. India's first hydel power station has completed its 100 years recently. The power house is located at**
- Calcutta
 - Mumbai
 - Darjeeling
 - Chennai
 - None of these

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16. Based on the following statements, conclusions I and II are given. Which one of the four alternatives a, b, c or d is correct?

Statement:

"Water supply in wards A and B of the city will be affected by about 50% on Friday because repairing work of the main lines is to be carried out"

I. The residents in these wards should economise on water on Friday.

II. The residents in these wards should store some water on the previous day.

- a) Only I is implicit
- b) Only II is implicit
- c) Both I and II are implicit.
- d) Neither I nor II is implicit.

Directions 17-18: These questions are based on the following statements:

- I. Mohan and Shiv are good in Chemistry and Biology.
- II. Arun and Mohan are good in Biology and Physics
- III. Arun, Pradeep and Naresh are good in Physics and History.
- IV. Naresh and Arun are good in Physics and Mathematics.
- V. Pradeep and Shiv are good in History and Chemistry.

17. Who is good in History, Physics, Biology and Mathematics?

- a) Arun
- b) Mohan
- c) Naresh
- d) Pradeep

18. Who is good in Physics, History and Mathematics, but not in Biology?

- a) Pradeep
- b) Arun
- c) Mohan
- d) Naresh

19. Arrange the following statements logically using three of them at a time:

- A. Some women are smart.
- B. All smart women are good-looking.
- C. Mini is a woman.
- D. Mini is smart.
- E. Mini is good-looking.
- F. All women are good-looking.

Codes:

- a) AFC
- b) DCB
- c) BDE
- d) FBE

20. Which letter in the word CYBERNETICS

occupies the same position as it does in the English alphabet?

- a) T
- b) C
- c) E
- d) I

21. Starting from a point O, Mahesh walks a distance of 5 km South, then turns to the right and walks 3 km. From there he again turns right and walks 5 km. He then turns to his left and walks 5 km. How far is he from the starting point and in what direction?

- a) 5 km, West
- b) 3 km, North
- c) 3 km, East
- d) 8 km, West

22. In a row of 6 persons, D and C are immediate neighbours of E. B is a neighbour of A only. F is fourth from A. Who are at the two end points?

- a) B and D
- b) F and B
- c) F and C
- d) B and C

Directions 23-25 : In these questions,

- | | |
|-------------|---|
| P * Q means | P is greater than Q |
| P = Q means | P is either greater than or equal to Q. |
| P = Q means | P is equal to Q. |
| P □ Q means | P is smaller than Q. |
| P □ Q means | P is either smaller than or equal to Q. |

In each question, a statement is given and followed by two conclusions I and II. You are to consider each statement and the conclusions that follow and decide which of the conclusions is/are implicit in the statement?

23. Statement :

G \square S, F $=$ S, T \square G

Conclusions:

- I. F * T
- II. T = S

- a) Only I is implicit.
- b) Only II is implicit.
- c) Both I and II are implicit.
- d) Neither I nor II is implicit.

24. Statement :

N \square T, T = P

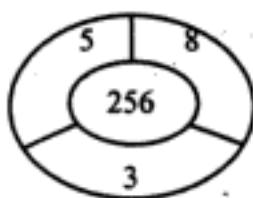
Conclusions:

- I. P * N
- II. P = N

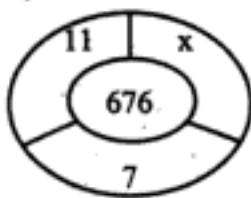
- a) Only I is implicit.
- b) Only II is implicit.
- c) Both I and II are implicit.
- d) Neither I nor II is implicit.

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43.



- a) 4 b) 6
c) 7 d) 8



Directions 44-45 : In each of the following questions, the numbers given in each row follow some rule. Select the number which is missing from the blank space (?) as per the rule, from the four alternatives given below.

44. 354 464 547

615 ? 718

912 734 619

- a) 354 b) 534
c) 545 d) 654

45. 6 11 25

8 6 16

12 5 ?

- a) 10 b) 12
c) 16 d) 18

Directions 46 : In the following series one term is wrong. Choose the correct term to replace the incorrect term.

46. 11, 2, 21, 3, 32, 4, 41, 5, 51, 6

- a) 13 b) 31
c) 33 d) 44

Directions 47-48 : In these questions, find the wrong term in the series.

47. 89, 78, 86, 80, 85, 82, 83

- a) 78 b) 86
c) 82 d) 83

48. 5, 27, 61, 122, 213, 340, 509

- a) 27 b) 61
c) 122 d) 509

Directions 49-50 : In these questions which number will come at the sign of interrogation in the series?

49. 11, 10, ?, 100, 1001, 1000, 10001

- a) 101 b) 110
c) 111 d) None of these

50. 2, 1, 2, 4, 4, 5, 6, 7, 8, 8, 10, 11, ?

- a) 9 b) 10
c) 11 d) 12

QUANTITATIVE APTITUDE TEST

1. Twenty four men can complete a work in sixteen days. Thirty six women can complete the same work in twenty four days. In how many days will eight men and six women complete the work?

- a) 24 days b) 36 days
c) 28 days d) 32 days
e) None of these

2. The price of 4 shirts and 6 trousers is Rs.3,600.00. If the difference between the price of a shirt is Rs.100 less than that of trouser, what is the price of a shirt?

- a) Rs.250.00 b) Rs.300.00
c) Data inadequate d) Rs.400.00
e) None of these

3. When a number is divided by 13 the remainder is 11. When the same number is divided by 17, the remainder is 9. What is the number?

- a) 349 b) 339
c) 369 d) Data inadequate

e) None of these

4. The ratio of the marks obtained by Shankar in History, Geography and Science is 3 : 7 : 11 respectively. The total marks obtained by him in Geography and Science together is 360. How many marks did he obtain in History?

- a) 75 b) 130
c) 95 d) 60
e) 110

5. Four of the five parts numbered (a), (b), (c), (d) and (e) are exactly equal. Which of the parts is not equal to the other four? The number of that part is the answer.

$$\begin{aligned} \frac{(a+b)^2 - (a-b)^2 - ab}{(a)} &= \frac{(a-b)^2 - ab}{(b)} \\ &= \frac{(a+2b)^2 - 3b(a+b) - 4ab}{(c)} = \frac{b^2 + a^2 - 3ab}{(d)} \\ &= \frac{(a+b)(a-b) + b(2b - 3a)}{(e)} \end{aligned}$$

6. Four of the five parts numbered (a), (b), (c), (d) and (e) in the following equation are

exactly equal. Which of the parts is not equal to the other four? The number of that part is the answer.

$$5.65 \times 380 - 1017$$

(a)

$$= 8.25 \times 800 - 4.5 \times 700 - 2320$$

(b)

$$= 17.2 \times 525 + 0.4 \times 800 - 8220$$

(c)

$$= 8060 - 5120 - 1820$$

(d)

$$= 140 \times 12.5 - 11.4 \times 200 + 1660$$

(e)

7. The difference between two numbers is 50 less than a third number. The ratio between the smaller of the two numbers and the third number 1 : 5. Which is the larger of the first two numbers?
 a) 40 b) 25
 c) Data inadequate d) 30
 e) None of these

8. What approximate value should come in place of the question mark (?) in the following equation?

$$161 \sqrt{5} + ? \% \text{ of } 960 = 1052 - 124$$

- a) 25 b) 60
 c) 35 d) 45
 e) 65
9. A water tank can be filled by pipe P alone in 30 minutes and by pipe Q alone in 40 minutes. The same tank can be emptied by pipe R in 25 minutes. If all the three pipes are opened at the same time, how long will it take to fill the water tank?
 a) 90 minutes b) 150 minutes
 c) 120 minutes d) 60 minutes
 e) None of these

10. The sum of three consecutive odd numbers is 20 more than the first of these numbers. What is the middle number?
 a) Data inadequate b) 11
 c) 9 d) 7
 e) None of these

Directions 11-15: In each of the following questions, a question is asked followed by three statements. While answering the question, you may or may not require the data provided in all the

statements. You have to read the question and the three statements and then decide whether the question can be answered with any one or two of the statements or all the three statements are required to answer the question. The answer number bearing the statements which are required to answer the question is your answer.

11. What is the relative speed of two trains running in the opposite direction?

- I. The total length of both the trains together is 280 metres.
 II. The speed of one of these trains is 90 kmph.
 III. They take seven seconds to cross each other.
 a) Only II and III b) only I and II
 c) Only I and III
 d) All I, II and III are required
 e) None of these

12. What is the difference in the share of profit between P and Q in a joint business at the end of one year?

- I. P invested Rs. 80,000 and withdrew Rs. 20,000 after six months.
 II. Q joined after four months after the business was started.
 III. Q's amount was 80 per cent of P's amount during the last six months.
 a) Only I and II b) Only II and III
 c) All I, II and III together are required.
 d) Even with all I, II and III the answer cannot be arrived at
 e) None of these

13. What is the annual income of Sudhir?

- I. Sudhir spends Rs. 800 per month on conveyance.
 II. Sudhir spends thirty per cent of his salary on food items.
 III. The difference between the amount spent by Sudhir on conveyance and food items is Rs. 300.
 a) Only I and II b) Only II and III
 c) All I, II and III are required
 d) Even with all I, II and III together the answer cannot be arrived at
 e) None of these

14. What will be the ratio between the ages of P and Q after 6 years?

- I. The ratio between their present ages is 5 : 6.
 II. P is 8 years older than his brother R.
 III. The ratio between the ages of Q and R is 3 : 2.
- a) Only I and II b) Only II and III
 c) All I, II and III are required
 d) Only I and III
 e) None of these
15. What will be the difference between the total simple interest and the total compound interest at the end of eight years on a certain sum at the same rate of interest?
- I. The total simple interest on the same sum at the end of three years is Rs. 750.
 II. The total compound interest on the same sum at the end of two years is Rs. 512.50.
 III. The rate of interest is 5 p.c.p.a.
- a) All I, II and III are required
 b) Any two of I, II and III
 c) I and II only d) II and III only
 e) None of these
- Directions 16-20 : In a certain code the symbol for 0 (zero) is * and 1 is •. There are no other symbols for other numbers and all numbers greater than 1 are written using these two symbols only. The value of the symbol 1 doubles itself everytime it shifts one place to the left. Thus:
- 0 is written as *
- 1 is written as •
- 2 is written as ••
- 3 is written as •••
- 4 is written as ••••
16. Which of the following will represent 15% of 80?
- a) •••• b) •••••
 c) ••••• d) ••••••
 e) None of these
17. Which of the following will represent the value of the expression $5 \times 8 \div 2 = ?$
- a) ••••• b) ••••••
 c) •••••• d) •••••••
 e) None of these
18. If ••••• is divided by •••, what will be the result?
- a) ••• b) ••••
 c) ••••• d) •••••
19. e) None of these
 19. Which of the following will represent 15?

a) ••••• b) ••••
 c) •••• d) •••••
 e) None of these

20. If ••• is added to •••, what will be the sum?

a) ••••• b) ••••
 c) •••• d) •••••
 e) None of these

21. What approximate value should come in place of the question mark in the following equation?
 $8.365 \text{ of } 1502 + 739.215 - 3295.62 = ?$

a) 9,500 b) 12,000
 c) 10,000 d) 9,000
 e) 12,500

Directions 22-23: The percentage distribution of marks obtained by a student in five subjects is given below:

Sub.:	History	Maths	English	Science	Geog.
Percent	50	70	80	*	75
Marks:					60

22. If the total marks in Mathematics was 200 and in Geography was 150, what was the difference in the marks obtained in these two subjects?

a) Data inadequate b) 40
 c) 80 d) 60
 e) None of these

23. The percentage marks obtained in which of the following subjects was closest to the average percentage marks of the five subjects?

a) Geography b) Science
 c) History b) English
 e) Mathematics

Directions 24-28: In each of the following questions a number series is given. After series, below it a number series is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the number given according to the sequence of the given series.

24. 3, 4, 10, 33, 136
 7 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (e)?

a) 1398 b) 57
 c) 1165 d) 18
 e) None of these

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- 25.** 2, 9, 57, 337, 1681
 3 (a) (b) (c) (d) (e)
 Which of the following numbers will come in place of (e) ?
 a) 13441 b) 17
 c) 673 d) 3361
 e) None of these
- 26.** 6, 9, 18, 45, 135
 20 (a) (b) (c) (d) (e)
 Which of the following numbers will come in place of (c) ?
 a) 1125 b) 150
 c) 30 d) 375
 e) None of these
- 27.** 25, 194, 73, 154, 105
 14 (a). (b) (c) (d), (e)
 Which of the following numbers will come in place of (d) ?
 a) 69 b) 183
 c) 94 d) 62
 e) None of these
- 28.** 140, 68, 36, 16, 10, 3
 284 (a) (b) (c) (d) (e)
 Which of the following numbers will come in place of (b) ?
 a) 18 b) 140
 c) 72 d) 34
 e) None of these
- 29.** The breadth of a rectangular plot is 40% of its length. If the area of the plot is 250 sq.metres, what is the perimeter of the plot?
 a) 75 metres b) 90 metres
 c) 60 metres d) 70 metres
 e) None of these
- 30.** The inequality of $A^2 + 5 < 5A + 14$ can be satisfied if
 a) $A \leq 6, A = -1$ b) $A = 6, A = -2$
 c) $A \geq 6, A = 1$ d) $A \leq 6, A \leq -1$
 e) None of these
- 31.** What appropriate value should come in place of question mark in the following question?
 $435821 + 20354 - 85412 + 25394 = ?$
 a) 3,16,000 b) 3,06,000
 c) 2,96,000 d) 3,76,000
 e) 3,96,000
- 32.** The average age of 35 students in a class is 16. The average age of 21 students is 14. What is the average of remaining 14 students?
 a) 15 years b) 18 years
 c) 17 years d) 19 years
 e) None of these
- 33.** What should come in place of question mark (?) in the following equation?
 40% of 1640 + ?
 = 35% of 980 + 150% of 850
 a) 1052 b) 842
 c) 962 d) 372
 e) None of these
- 34.** Among following (a), (b), (c), (d) and (e) five parts four are equal. Find out the part which is not equal to other four parts?

$$\begin{aligned} 3156 + 1080 - 2124 &= 6336 - 2112 - 2012 \\ &= 165 \times 16 + 1028 - 1556 \\ &= 250\% \text{ of } 1800 - 1232 - 1156 \\ &= 190 \times 24 + 1580 - 4028 \\ &= \end{aligned}$$
 (a) (b)
 (c)
 (d)
 (e)
- 35.** $\frac{4}{5}$ of a number is 15 more than its 75%, then what is 40% of that number?
 a) 160 b) 120
 c) 240 d) 60
 e) None of these

ANSWERS

GENERAL AWARENESS

- | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. c | 2. c | 3. b | 4. d | 5. b | 6. c | 7. c | 8. d | 9. b | 10. a |
| 11. c | 12. c | 13. e | 14. b | 15. d | 16. a | 17. c | 18. d | 19. a | 20. d |
| 21. c | 22. d | 23. b | 24. e | 25. e | 26. c | 27. d | 28. a | 29. b | 30. e |
| 31. a | 32. c | 33. a | 34. b | 35. c | 36. e | 37. a | 38. d | 39. e | 40. c |
| 41. a | 42. c | 43. c | 44. e | 45. b | 46. a | 47. c | 48. b | 49. a | 50. d |

TEST OF REASONING

- | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. d | 2. c | 3. a | 4. c | 5. d | 6. c | 7. a | 8. c | 9. c | 10. a |
| 11. c | 12. b | 13. b | 14. b | 15. a | 16. c | 17. a | 18. d | 19. c | 20. d |
| 21. d | 22. b | 23. a | 24. c | 25. b | 26. a | 27. c | 28. b | 29. a | 30. c |
| 31. b | 32. a | 33. c | 34. a | 35. c | 36. c | 37. c | 38. c | 39. a | 40. c |
| 41. b | 42. b | 43. d | 44. c | 45. c | 46. b | 47. b | 48. a | 49. a | 50. b |

EXPLANATORY NOTES

1. Number of students who took History or Mathematics or Science
 $= 16 + 14 + 9 + 15 + 19 + 16 + 13 + 20 + 18 + 18 + 13 + 12 = 183$

3. Number of students who took any three of the subjects
 $= 13 + 18 + 13 + 18 = 62$

5. Number of cubes which are painted on three faces are clearly the vertices of the cube, which are 8 in number.

6. In the sequence, there are two 6's which are followed by 3 and preceded by 8. These are 863, 863.

7. From figure (i),
Opposite of 6 is 4 (from Q.8)
Opposite of 2 is 5 (from Q.9)
9. From fig. (i), 3 and 6 exist with 2(i)
From fig. (ii), 3 and 6 exist with 5(ii)
From (i) and (ii), 5 will be opposite 2.

10. From above, it is clear that A's speed is 6 km/hr.
For Qs. 10-12 : Suppose B's speed = x km/hr.

- \therefore A's speed = $3/2 \times x$ km/hr
Since they cross each other at 8 p.m., so by that time A has travelled for 14 hrs and B for 9 hrs.
Now distance covered by A in 14 hrs = $3/2 \times 14$
= $21x$ and distance covered by B in 9 hrs = $x \times 9$
= $9x$
By hypothesis, $21x + 9x = 120$ or $30x = 120$
 $\therefore x = 4$

- \therefore A's speed = $3/2 \times 4 = 6$ km/hr
and B's speed = 4 km/hr.
14. Changing the symbols as instructed,
 $(13 - 15 + 19) \times 8 + 6 = (3 \times 15 + 19) + 8 - 6 = 64$

- $+ 8 - 6 = 8 - 6 = 2$
15. Medicine removes sickness, while book removes ignorance.
16. Both the statements are implicit in the given statement.

Qs. 17-18: Tabulating the given data, we get

Name	Good at				
	Chemistry	Biology	Physics	History	Maths
Mohan	Yes	Yes	Yes	-	-
Shiv	Yes	Yes	-	Yes	-
Arun	--	Yes	Yes	Yes	Yes
Pradeep	Yes	-	Yes	Yes	-
Naresh	--	-	Yes	Yes	Yes

17. From the table, it is clear that the person who is good in History, Physics, Biology and Mathematics is Arun.
18. From the table, it is clear that the person who is good in Physics, History and Mathematics but not in Biology is Naresh.
19. All smart women are good-looking. Since, Mini is smart, therefore, Mini is good-looking. Hence, the order is b d e.
20. In the word CYBERNETICS, the letter "I" occupies the same position (9th) in the given word as in the alphabet.
21. Mahesh starts from O, walks 5 km South and reaches P. At P, he turns right, walks 3 km and reaches Q. At Q, he turns right, walks 5 km and reaches R. At R, he turns left, walks 5 km and reaches S.
It is clear from the figure that, his distance from the starting point O is
OS = OR + RS = PQ + RS = 3 km + 5 km = 8 km.

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EXPLANATORY NOTES

1. 24 men can finish a work in = 16 days
 \therefore 1 man can finish a work in = 16×24 days
 \therefore 1 man's one day's work = $\frac{1}{24 \times 16}$
 Next, 16 women can finish a work in = 24 days
 1 woman can finish a work in = 24×16 days
 \therefore 1 woman's 1 day's work = $\frac{1}{24 \times 16}$
 Hence, 8 men's and 6 women's 1 day's work =
 $= \frac{8}{24 \times 16} + \frac{6}{24 \times 16} = \frac{14}{24 \times 16}$
 Hence, they can finish the work in
 $\frac{24 \times 16}{14} = \frac{192}{7} = 28$ days (approx.)
2. Suppose prices of each shirt and trouser is Rs. x and Rs. y respectively.
 By hypothesis, $4x + 6y = 3600$ (i)
 $y - x = 100$ (ii)
 Multiplying (ii) by 6 and subtracting from (i),
 $10x = 3000 \therefore x = \text{Rs. } 300$
3. The number 349 satisfies the given property.
4. Suppose the marks obtained in History, Geography and Science are $3x$, $7x$, $11x$ respectively. By hypothesis,
 $7x + 11x = 360$ or $18x = 360 \therefore x = 20$
 Hence, marks obtained in History = $3x = 3 \times 20 = 60$.
7. Suppose the three numbers are x , y and z .
 By hypothesis,
 $x - y = z - 50$ (i)
 $\text{and } \frac{y}{z} = \frac{1}{5} \text{ or } z = 5y$ (ii)
 Since three variables cannot be solved with two equations, therefore, the data is inadequate.
9. P's 1 hour's filling capacity = $\frac{1}{30}$
 Q's 1 hour's filling capacity = $\frac{1}{40}$
 R's 1 hour's emptying capacity = $\frac{1}{25}$
 $\therefore (P + Q + R)'s 1 hour's filling capacity$
 $= \frac{1}{30} + \frac{1}{40} - \frac{1}{25} = \frac{20 + 15 - 24}{600} = \frac{11}{600}$
 Hence, when all the three taps are open, the tank shall be filled up in $\frac{600}{11} = 54.55$ minutes.
12. Since Q's investment for the first 4 months is not known, therefore, all the three statements I, II, III together are not sufficient to answer the question.
13. Suppose, Sudhir's salary = Rs. x
 By statement I, Sudhir is spending on conveyance = Rs. 800
 By statement II, Sudhir spending on food items = Rs. $\frac{30}{100} \times x = \text{Rs. } \frac{3}{10}x$
 By statement III,
 $800 - \frac{3}{10}x = 300$ or $\frac{3}{10}x = 500 \therefore x = \text{Rs. } \frac{5000}{3}$
 Hence, all the three statements I, II and III are required to answer the question.
14. By statement I, $P = 5x$, $Q = 6x$ (i)
 By statement II, $P = R + 8$ (ii)
 By statement III, $R = \frac{2}{3}(6x) = 4x$ (iii)
 Substituting the values of P and R in (ii),
 $5x = 4x + 8$ or $x = 8$
 Thus, required ratio = $\frac{5x + 6}{6x + 6} = \frac{46}{54} = \frac{23}{27}$
 Hence all the statements I, II and III are required to answer the question.
17. $? = 5 \times 8 + 2 = 40 + 2$
 $= 20 = 1 \times 2^4 + 0 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 0 \times 2^0$
 $= * * * * *$
18. Here * * * * * = $1 \times 2^4 + 1 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 0 \times 2^0$
 $= 16 + 8 + 4 + 0 + 0 = 28$
 and * * * = $1 \times 2^2 + 1 \times 2^1 + 1 \times 2^0 = 4 + 2 + 1 = 7$
 $\therefore 28 \text{ divided by } 7 = 4 = 1 \times 2^2 + 0 \times 2^1 + 0 \times 2^0 = * * *$
19. (a) = * * * = $0 \times 2^3 + 0 \times 2^2 + 0 \times 2^1 + 0 \times 2^0 = 0$
 (b) = * * * = $1 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 1 \times 2^0$
 $= 8 + 4 + 0 + 1 = 13$
 (c) = * * * = $1 \times 2^3 + 1 \times 2^2 + 1 \times 2^1 + 1 \times 2^0$
 $= 8 + 4 + 2 + 1 = 17$
20. * * * = $1 \times 2^2 + 1 \times 2^1 + 1 \times 2^0 = 4 + 2 + 1 = 7$
 * * * = $1 \times 2^2 + 0 \times 2^1 + 0 \times 2^0 = 4 + 0 + 0 = 4$
 Thus, sum of * * * and * * is $7 + 4 = 11$
 But $11 = 8 + 0 + 2 + 1 = 1 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 1 \times 2^0$
 $= * * * *$
21. $? = 8.365 \text{ of } 1502 + 739.215 - 3295.62$
 $= 8.365 \times 1502 + 739.215 - 3295.62$
 $= 12564.23 + 739.215 - 3295.62$
 $= 10007.825 = 10000 \text{ (approx.)}$
25. The terms of the series follow the rule $* n - (n-1)$
 \therefore (a) = 2nd term = 1st term $\times 8 - 7 = 3 \times 8 - 7 = 17$
 (b) = 3rd term = 2nd term $\times 7 - 6 = 17 \times 7 - 6 = 113$
 (c) = 4th term = 3rd term $\times 6 - 5 = 113 \times 6 - 5 = 673$
 (d) = 5th term = 4th term $\times 5 - 4 = 673 \times 5 - 4 = 3361$
 (e) = 6th term = 5th term $\times 4 - 3 = 3361 \times 4 - 3 = 13441$

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26. The successive terms are obtained by multiplying the terms by 1.5, 2, 2.5, 3, etc.
 (a) = 2nd term = 1st term \times 1.5 = $20 \times 1.5 = 30$
 (b) = 3rd term = 2nd term \times 2 = $30 \times 2 = 60$
 (c) = 4th term = 3rd term \times 2.5 = $60 \times 2.5 = 150$
27. The differences between the odd-positioned terms are 48, 32, etc., while the differences between the even-positioned terms is -40.
 (b) = 3rd term = 1st term + 48 = $14 + 48 = 62$
 (d) = 5th term = 3rd term + 32 = $62 + 32 = 94$
28. The terms of the series follow the rule $+2+2$ and $+2+2$ alternately.
 (a) = 2nd term = 1st term $+2-2 = 284 + 2 - 2 = 142-2 = 140$
 (b) = 3rd term = 2nd term $+2+2 = 140 + 2 + 2 = 70 + 2 = 72$
30. $A^2 + 5 < 5A + 14$ or $A^2 - 5A - 9 < 0$
 For maximum value of $A = 6$,
 $6^2 - 5 \times 6 - 9 = -3 < 0$ is satisfied
 and for minimum negative value of $A = -2$,
 $(-2)^2 - 5(-2) - 9 = 5 \neq 0$ is not satisfied.
 Thus, negative value of A must be greater than -2, i.e., $A = -1$.
31. ? = $435821 + 20354 - 85412 + 25394$
 $= 396157 = 396000$ (approx.)
32. Average age of 35 students = 16 years
 Total age of 35 students = $35 \times 16 = 560$ years
 Average age of 21 students = 14 years
 Total age of 21 students = $21 \times 14 = 294$ years
 Average age of remaining 14 students
 $= \frac{560 - 294}{14} = \frac{266}{14} = 19$ years.
34. (a) = $2156 + 1080 - 2124 = 2112$
 (b) = $6336 - 2112 - 2012 = 2212$
 (c) = $165 \times 16 + 1028 - 1556 = 2112$
 (d) = 250% of $1800 - 1232 - 1156$
 $= \frac{250}{100} \times 1800 - 2388 = 2112$
 (e) = $190 \times 24 + 1580 - 4028 = 2112$
 Hence, (b) is different from the other four.
35. If the number is x , then by hypothesis,
 $\frac{4}{5}x = \frac{75}{100}x + 15$ or $\frac{4}{5}x - \frac{3}{4}x = 15$ or $\frac{1}{20}x = 15$
 $\therefore x = 15 \times 20$
 Hence, 40% of $x = \frac{40}{100} \times 300 = 120$.

SBI ASSOCIATE BANKS' P.O. EXAM

(Held in July 1998)

GENERAL AWARENESS

1. As per recent reports, how much food grains including rice and wheat was procured for the year 1997-98 (April-March) in India (000 tonnes, approximately)?
 - 1) 15000
 - 2) 23500
 - 3) 28000
 - 4) 32600
 - 5) 35500
2. Late Talat Mahmood was famous for his contribution to which of the following areas?
 - 1) Art and painting
 - 2) Classical music
 - 3) Sports
 - 4) Journalism
 - 5) Playback singing
3. The 45th National Film Awards were announced recently. Which of the following combinations of the film and the award given to them is NOT correct?
 - 1) *Thai Saheb* - Swarna Kamal for best feature film.
 - 2) *Boothakarnadi* - Indira Gandhi award for the best first film of a director.
 - 3) *Dil to Pagal Hai* - Best popular film
 - 4) *Border* - Nargis Dutt award for best feature film on national integration.
 - 5) All the above combinations are correct
4. Which of the following organisations/agencies has recently introduced a programme funded by the International Fund for Agricultural Development (IFAD) in some parts of the country?
 - 1) Reserve Bank of India
 - 2) National Bank for Agricultural & Rural Development (NABARD)
 - 3) Union Ministry of Agriculture
 - 4) International Monetary Fund (IMF)
 - 5) None of these
5. The name of the former Miss Universe 1981, Irene Saez was recently in the news because
 - 1) She is a stage artist and was in India for a charity show.
6. She was on a visit to India as a panelist for Miss India '98 contest.
 - 2) She is on a world visit to create awareness of AIDS.
 - 3) She is a candidate for Presidential election in Venezuela, due in near future.
 - 4) None of these.
7. The name of Shekhar Kapur, the famous film personality of India, is associated with which of the following films in making/released recently?
 - 1) Elizabeth-I
 - 2) Home Alone-3
 - 3) Tomorrow Never Dies
 - 4) Titanic
 - 5) None of these
8. Which of the following statements is true about "United Nations trade embargo" imposed on Iraq in 1990?
 - 1) There is no such embargo as it was lifted over in 1995.
 - 2) United Nations was demanding that Iraq should destroy all banned arsenals.
 - 3) International Atomic Energy Agency, in its recent reports, has said that Iraq has still a large storage of the banned arsenals.
 - 4) Only A
 - 5) Only C
 - 6) Only B & C
9. Which of the following is not included in the "declaration of fundamental rights" issued recently by the International Labour Organisation (ILO)?
 - 1) Freedom of association.
 - 2) Freedom of collective bargaining.
 - 3) Suppression of all forms of forced or compulsory labour.
 - 4) Promotion of equality of opportunity.
 - 5) All the above are included in the declaration.
10. "Blasphemy Law" of which of the following countries is being criticised severely as it has hurt the feelings of the

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- 19. Why was Phoolan Devi in the news recently?**
- She has resigned from the Lok Sabha.
 - She has become a member of the Rajya Sabha.
 - She is the leader of the team selected to visit Oil and Petroleum Exporting Countries (OPEC) to clarify India's stand on CTBT.
 - Her name has been referred to the Nobel Peace Prize Committee.
 - None of these
- 20. As per current estimates, India's defence expenditure for 1997-98 makes around what percentage of the G.D.P.?**
- 1%
 - 1.7%
 - 2%
 - 2.2%
 - 3.5%
- 21. Mr. Frank Sinatra, who died recently, was associated with which of the following fields?**
- Journalism
 - Painting
 - Singing
 - Politics
 - None of these
- 22. Which of the following countries lost a huge amount of its fish harvest recently as toxin released by a fast-breeding oxygen-absorbing algae wiped them out?**
- S. Korea
 - China
 - Malaysia
 - Hongkong
 - None of these
- 23. Which of the following is not true about Hansa-3, the aircraft which was recently in the news?**
- It is India's first indigenously built aircraft.
 - The aircraft will be used for training purposes.
 - The total weight of the aircraft is 750 kg.
 - Control panel of this aircraft was designed and fabricated by France.
 - The aircraft can be used for surveillance and environmental monitoring.
- 24. The Union Commerce Minister while announcing the new exim policy has fixed the target of growth in exports for the year 1998-99 at**
- 10%
 - 13%
 - 15%
 - 20%
 - 25%
- 25. Who among the following has written *The Insider*—a book published recently?**
- Mr. Inder Kumar Gujral
 - Mr. P.V. Narasimha Rao
 - Dr. Najma Heptulla
 - Mrs. Sonia Gandhi
 - None of these
- 26. Germany has published a panel of 11 countries who will be the first members of the 'single currency euro money'. Which of the following is NOT included in the panel?**
- Spain
 - France
 - Britain
 - Italy
 - Belgium
- 27. Mr. Radu Vasile, who was recently in the news, has taken over as the new**
- President of Romania
 - Prime Minister of Romania
 - President of Cambodia
 - Prime Minister of Cambodia
 - Prime Minister of South Africa
- 28. Which of the following is NOT a recommendation of the M. Narasimhan Committee on Banking Reforms which was in the news recently?**
- Creation of two or three large banks with international structure.
 - Creation of eight to ten banks as national banks.
 - Elimination of small rural or cooperative banks having less than Rs.350 crore as capital.
 - Separating supervisory and regulatory functions of the RBI.
 - All are the recommendations of the Committee.
- 29. As per a recent decision taken by the government of India the retirement age of Central Government employees would be**
- 58 yrs.
 - 60 yrs
 - 62 yrs
 - 65 yrs
 - 63 yrs

30. Sonal Mansingh is associated with which of the following fields?
1) Dancing 2) Sports
2) Social Service 4) Politics
3) Journalism
31. Which of the following statements is true about the Latvian Citizenship to about seven lakh people having Russian as their mother tongue?
A) Latvia refused to give her citizenship to these Russian speaking people.
B) Russia has threatened to apply economic sanctions against Latvia over the issue.
C) Latvia has refused to follow Russian instructions.
1) Only A 2) Only B
3) A and B both
4) A, B and C all are true
5) All the three statements are not true
32. Which of the following film personalities was selected for Nishan-e-Imtiaz, the highest civilian award of Pakistan?
1) Sunil Dutt 2) Shabana Azmi
4) Javed Akhtar 4) Ramesh Sippy
5) None of these
33. As per reports which appeared in some newspapers, the slave trade of Asians is prevalent in which of the following countries?
1) Australia 2) U.A.E.
3) Germany 4) U.K.
5) None of these
34. Which of the following best describes the term 'Lymphoedema' as used in medical science?
1) It is an abnormal swelling of a part of body, usually an arm or a leg.
2) It is the technical name of blood cancer.
3) This is a new vaccine developed to cure blindness in infants.
4) This is a condition which refers to the birth of a newly-born with one lung only.
5) None of these.
35. Dr. Devendra D. Patel, the recipient of B.C. Roy award (given away recently), is a specialist in which of the following areas of medical sciences?
1) Cancer Research 2) Cardiology
2) Neuro Surgery 4) Pathology
3) Urological Research
36. The Union Government is planning to create a new state named as Chhattisgarh. Which of the following is NOT TRUE about the area and political and administrative processes going on to be set up in this State?
1) It will be carved out of seven districts of Madhya Pradesh
2) Chhattisgarh area at present contributes 44 percent of the total revenue to M.P.
3) Mining of diamonds and iron ore will be major industries of the state.
4) The MPs and MLAs are demanding to form an interim govt. in the State by the representatives of the area.
5) None of these
37. Why was Zhu Rongji recently in the news?
1) He is the new Prime Minister of China.
2) He is the new Prime Minister of S. Korea.
3) He will be the new President of N. Korea.
4) He has taken over as the new Governor of Assam.
5) He has taken over as the new Chief Minister of Nagaland.
38. As per recent figures, which of the following countries invested maximum amount directly in India between 1991 and 1997?
1) U.K. 2) Japan
3) Germany 4) South Korea
5) U.S.A.
39. Which of the following operations conducted in India in the past was code-named as "Smiling Buddha" and was in the news once again?
1) It was the name of the 2500th birth ceremony of Lord Buddha celebrated in 1996.
2) It is the name of the plan prepared by India which will bring peace in South Asian region.
3) It was the name of the operation of the nuclear explosion done by India in 1974.



- 4) It is the name of the operation undertaken by India to renovate temples and stupas of Buddha all over the world.
 5) None of these
40. Jakarta was suffering from incidents of violence and lootings in the recent past. Which of the following was the main reason for the same?
 A) People wanted Mr. Suharto to step down and resign from the post of the President of Indonesia.
 B) People wanted Mr. Suharto to take over the charge of the country as the new government has failed there.
 C) Citizens of Indonesia wanted USA and five other big countries to lift the economic sanctions imposed on their country.
 1) Only A 2) Only B
 3) Only C 4) A & B both
 5) A & C both
41. Which of the following cities was to be the venue of the "World Conference on Family Violence" scheduled in September 1998?
 1) New Delhi 2) Mumbai
 3) Jaipur 4) Bangalore
 5) Calcutta
42. Which of the following places related with Lord Buddha is being considered for developing an International Centre of Learning?
 1) Kushinagar 2) Nalanda
 3) Sanchi 4) Samath
 5) None of these
43. Which of the following is not true about Classic Indian Open Golf Championship held in March '98?
 1) Dean Wilson of U.S.A. was the runner-up of the Championship.
 2) The winner recorded a smashing victory rewriting up four rounds in 14 under 274.
 3) The championship went to Feroz Ali.
 4) The match was played at the Royal Bombay Golf Club Course
 5) This is a championship with 3,00,000 dollars as prize money.
44. Which of the following organisations has sanctioned a 550-million-dollar Economic Restructuring loan to Andhra Pradesh recently?
 1) World Bank
 2) Planning Development Bank
 3) Asian Development Bank
 4) European Economic Community
 5) None of these
45. As per FIFA rankings issued in March '98, which of the following football teams is at the top in the world class teams?
 1) Argentina 2) Brazil
 3) Germany 4) Italy
 4) None of these
46. Who among the following is the author of *Love and Longing in Bombay*, a book which won the best book award of the Commonwealth Writers Prize for Eurasia?
 1) Arundhati Roy 2) Kamala Das
 3) Vikram Seth 4) Vikram Chandra
 5) Kamala Markandeya
47. Borlaug Awards are given for the best contribution in the field of
 1) Agricultural Science
 2) Biological Sciences
 3) Nuclear Physics
 4) Chemical Engineering
 5) None of these
48. Which of the following is not a part of National Agenda adopted by the BJP-led coalition Government in India?
 1) To set up a commission to frame a common civil code for the citizens of India.
 2) A commission to review the Constitution of India in the light of past 50 years.
 3) Reservation of 33% of seats for women in the Parliament and State Assemblies.
 4) Electoral reforms on the basis of the recommendations of Goswami Commission.
 5) To evolve a national housing and habitant policy and build 20 lakh housing units every year.
49. Which of the following is not true about "Param 10000" developed by India recently?

- 1) It will be used for weather forecasting and seismic data processing.
- 2) It can perform 50 billion calculations per minute.
- 3) It is a Super Computer.
- 4) It is Asia's second largest Super Computer.

- 5) C-DAC of Pune has developed this Super Computer.
50. **Kumari Koneru Humpy** is associated with which of the following games?
- 1) Tennis
 - 2) Polo
 - 3) Chess
 - 4) Badminton
 - 5) None of these

ENGLISH

Directions (Q. 51-55): Read the following passage carefully and answer the questions given below it. Certain words/ phrases are given in bold to help you locate them while answering some of the questions.

Water plays a versatile role in the functioning of the biosphere. The water cycle has two distinct branches—the atmospheric branch and the terrestrial branch. In the atmosphere, water exists mainly in gaseous form. On the earth, liquid forms and solid forms (ice/snow) predominate.

Water is important to the biosphere in that it is from water that the biosphere **draws** its most abundant element, hydrogen. Hydrogen in the form of carbohydrates constitutes a very important source of energy for all living things. Although we have a plentiful supply of water in the oceans, it is not of direct use to us. We have to depend upon a small stock of water—less than 1%—contained in our rivers and fresh-water lakes and in the subsoil. Even this small proportion can cause havoc to life if it is not properly managed: The reference here is to floods.

We return to the subject of floods again since nature's fury seems still **unabated**. While relief measures are undoubtedly important, attention has to be focussed on the long-term flood control measures. In the past, we had constructed flood moderation reservoirs across catchment areas of rivers, and built 19,260 km. of embankments and 27,850 km. length of drainage channels. Besides, 18,900 villages have been raised above the flood level upto March 1997.

The fact is that long-term flood control measures to be effective should include both traditional methods and afforestation measures. The intensity of floods may be reduced by keeping the drainage channels clear and removing the accumulated silt from reservoirs and river beds. In

fact, the dams built have trapped silt coming from the hills and prevented its large accumulation in river beds downstream. Hence the new emphasis on building more dams in the northern rivers should be welcomed. The embankments also need to be **reinforced**. In many places, they are just made of mud and sand and easily breached by a little gush of water. Other improvements should be in the regulation of water discharge from filled reservoirs and in the flood forecasting system. Even the present warning system, though inadequate, has helped to save many valuable lives and property. Since the States have been **lethargic** in implementing flood control schemes and since most rivers flow through many States, it would be better if flood control is handled by the Centre. The mighty Himalayan rivers are unlikely to be tamed unless we have a basic understanding as to how floods originate. Since 1947, Indian and foreign scientists have been repeatedly emphasizing that the volume of water in the Himalayan rivers in the monsoons is the combined effect of rainfall, snow melt and glacier discharges. Even the first expert committee set up by Mr. Nehru had opined that a serious study of the snow melt and glacier discharges is essential for avoiding flood disasters in the north. But efforts in this direction, during the last 50 years, have been very inadequate. Now that satellite pictures are available detailing the snow cover in the Himalayas over large areas and their movements the government would do well to initiate measures to obtain the relevant data from such pictures. Field studies in the Himalayan region would also help flood control measures.

51. The author's attitude is

- 1) conservative
- 2) optimistic
- 3) cynical
- 4) critical
- 5) constructive

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62. UNABATED

- 1) Unsympathetic 2) Unexpected
 3) Unaltered 4) Uncompromising
 5) Unparalleled

63. REINFORCED

- 1) Re-examined 2) Restructured
 3) Reconstructed 4) Strengthened
 5) Replaced

Directions (Q. 64-65): Pick out the word that is most OPPOSITE in meaning to the word printed in bold as used in the passage.

64. DRAWS

- 1) Recharges 2) Pushes
 3) Replenishes 4) extracts
 5) Spends

65. LETHARGIC

- 1) Indolent 2) Hyper-active
 3) Immobile 4) indolent
 5) Unpleasant

Directions (Q. 66-80): Which of the following phrases (1), (2), (3) and (4) given below each sentence should replace the phrase printed in *italics* to make the sentence grammatically correct? If the sentence is correct as it is, mark (5) as the answer.

66. One good thing about Consumer Protection Act for doctors is that it does not equate *genuine errors of judgements with negligence*.

- 1) does not necessarily equate errors of judgement genuinely by
 2) equates no genuine errors by judgement of
 3) is not to equate genuine errors for judgement of
 4) is not equated with negligence the genuine errors of judgement.
 5) No correction required

67. The Ministry has recently issued a suspending circular for the grant of fresh licences to transport operators.

- 1) have had recently issued a suspended circular for the grant of
 2) has been recently issuing a circular for suspending the grant of
 3) has recently suspended its circular for the

granting of

- 4) has recently issued a circular suspending the grant of
 5) No correction required

68. Had he taken the medicine regularly, he would have *felt better much quicker*.

- 1) feeling better much quicker
 2) been felt better more quickly
 3) feeling better much quicker
 4) felt better more quickly
 5) No correction required

69. The police came on the scene *almost after immediate* the people killed the gangster.

- 1) almost immediately after
 2) almost after immediately
 3) almost immediately
 4) immediately after almost
 5) No correction required

70. The cricketers admitted that they were *practising hard for* the last six months.

- 1) had practised hard for
 2) had been practising hard by
 3) had been practising hard for
 4) had been practised hardly
 5) No correction required

71. Failing to give hand signals, *a mistake often made by tired drivers*, is a cause of accidents on busy roads.

- 1) a mistake caused by tired drivers made
 2) a mistake made by tired drivers causing of
 3) by tired drivers is a mistake to often cause
 4) is a mistake made by tired drivers for a cause of
 5) No correction required

72. Mumbai's bus services are adjudged to be the best in the country *especially because their fares are reasonable, on various counts*.

- 1) that is especially because of their reasonable fares on various counts
 2) on various counts, especially their reasonable fares
 3) because of their special fares on various reasonable counts
 4) on various counts being their specially reasonable fares

- 5) No correction required
- 73. Any help that you can give me will be appreciated.**
- that would have been given me by you
 - that has been given to me by you
 - that you gave me
 - which you could have give me
 - No correction required
- 74. The manager thinks that the supervisor is guilty although a large amount of employees think he is innocent.**
- a large number of employees
 - the large numbers of employees
 - the larger amount of employees
 - a large amount of the employees
 - No correction required
- 75. What does it matter most is the process and not the end result.**
- What matters most is
 - What is the matter mostly is
 - What does the matter is mostly
 - What does it in most matter was
 - No correction required
- 76. A politician must necessarily cultivate the art of speaking.**
- must cultivate the necessarily art
 - ought to necessarily cultivation of the art
 - must be necessarily cultivating an art
 - must have the necessity to cultivate an art
 - No correction required
- 77. Those cities usually had enough rainfall to eliminate the complete need for extra drainage system.**
- to eliminate completely the need
 - to complete elimination of the need
 - to complete the need for elimination
 - for completely elimination of the need
 - No correction required
- 78. After having finished the presentation, the speaker asked the audience if there were any questions.**
- After having been finished
 - After he finished
 - Having been finished
 - After it had finished
 - No correction required
- 79. India has announced a programme of measures designed to open its long-awaited markets and appease foreign trade negotiators.**
- the design of a programme to open its long-awaited markets
 - a measured programme designed to open its long-awaited markets
 - a designed programme to measure the opening of its long-awaited markets
 - a long-awaited programme of measures designed to open its markets
 - No correction required
- 80. We must concentrate more on the prevention and not only the cure of diseases.**
- but also the cure
 - and the cure
 - and also the cure
 - than on the cure
 - No correction required

Directions (Q.81-85): For each question you are given a frame of three sentences of which the middle sentence has been removed. Three possible fillers denoted by (A), (B) and (C) are provided. One or more than one or none might fit. After using the filler(s), the completed frame must be a compact and well-organised presentation of the idea implied in it. Select the most appropriate answer in each case.

- 81. Dr. Ganesan is undoubtedly a thoroughly competent person. Unfortunately, the higher-ups who liked sycophants, did not give him his due promotion.**
- He does not like flatterers, nor does he like to hang around his bosses.
 - He is also tactful enough to know which strings to pull and always keeps his bosses happy.
 - He is averse to sycophancy.
- Only A
 - Only B
 - Only C
 - Either A or C
 - None of these
- 82. While the height of the ancient skyscrapers may not measure upto some modern buildings, their longevity is beyond challenge. Unlike today's**

- skyscrapers, which often are erected in less than a year and torn down a quarter of a century later, those old skyscrapers stood for centuries.**
- A) They were made to endure.
 B) Today's skyscrapers are built fast but they seldom last for more than a decade.
 C) Modern buildings are no doubt far superior as far as their durability is concerned.
- 1) Only A 2) Only B
 3) Only C 4) Either A or C
 5) Either B or C
- 83. Our 'suggestion award' scheme is well received by all the employees. (...) The real reason is that they feel they are an important part of the management.**
- 1) The reason for this is obviously the monetary benefit involved in it.
 2) They are happy but not because of the material gain.
 3) But its implementation is delayed for certain reasons.
- 1) Only A 2) Only B
 3) Only C 4) Either B or C
 5) None of these
- 84. It has become very difficult for private bus operators to make profits. (...) Besides, the road taxes, wheel-taxes and maintenance costs are steeply escalating.**
- A) The number of their commuters is on an increase.
 B) The charges proposed by them have been unconditionally approved by the Government.
 C) They have got some relief as they are allowed to recover the increasing fuel charges from the commuters.
- 1) Only A 2) Only B
 3) Only C 4) Either A or C
 5) None of these
- 85. The ban on public meetings has been lifted temporarily. (...). This relaxation will probably be extended for a number of weeks.**
- A) This had reduced the effectiveness of the militants' propaganda about restrictions.
 B) However, the night curfew is less likely to be relaxed.
- C) Barring some minor incidents, the gamble seems to have paid off.
- 1) Either A or B 2) Either B or C
 3) Either A or C 4) Only A
 5) Only C
- Directions (Q. 86-90): In each question, there is a group of sentences. There is blank space denoting a gap of a part or full sentence. Each question has five alternative answers. Find out from the given answers the one that exactly fits into the blank in the context of the group of sentences in the question.**
- 86. The landlord said to his servant, "Let's not make a fool of ourselves by adopting such a stance." The servant shot back, "What**
- 1) other choice do we have
 2) If we do not have other choice
 3) other course would you suggest, Sir
 4) else can he do in these circumstances
 5) should he do then
- 87. I received my friend's letter from Hyderabad on 25th May. The envelope containing the letter had a date stamp of Hyderabad post office with 19th May as the date. He that letter on or before 19th May.**
- 1) obviously did write
 2) could have obviously posted
 3) must have obviously written
 4) should have obviously written
 5) ought to have obviously written
- 88. Mahesh goes out for a walk daily in the morning and crosses Ramesh exactly at the garden gate without fail. Mahesh and wondered whether Ramesh got indisposed or was out of town.**
- 1) failed to go out for a walk today
 2) had crossed him yesterday and day before
 3) missed him yesterday and day before
 4) met him yesterday exactly at the gate
 5) having met him yesterday, after a week
- 89. My friend had borrowed from me a loan of hundred rupees on 25th January, with promise to repay it within three days. He repaid it on 31st January**

- 1) with an appreciation for keeping the promise
 2) with a note of regrets for the delay
 3) with a reminder to keep the promise
 4) as per his promise
 5) quite in time, with a thank-you note
90. A messenger from 'X' bank's Chairman called on the Manager of our branch to deliver a special letter. The Secretary to the manager requested the messenger to as the manager was busy in a meeting with some other VIPs.
- 1) go to the manager of our branch
 2) report to his chairman
 3) return to his office after handling over the letter
 -4) wait for a while in the lounge
 5) discuss the matter with the branch manager
- Directions (Q. 91-100):** In the following passage there are blanks each of which has been numbered. These numbers are printed below the passage and against each five words are suggested one of which fits the blank appropriately. Find out the appropriate word in each case.
- India's ... (91) ... over the past half century since independence has been unique and ... (92) ... in many ways. Yet the record is ... (93) ... in relation to what the country set out to achieve and could certainly have been ... (94) ... It is ... (95) ... to look at both sides; the alternative is to be ... (96) ... down by unrelieved gloom or unwarranted ... (97) ... The fact is that after eight 5-year plans, about 40 per cent of population is ... (98) ... below the poverty line. The human development indices are ... (99) ... low, placing India at the 126th position
- in the world table, far below many countries that came to ... (100) ... much later than it did.
91. 1) excellence 2) development
 3) domination 4) predicament
 5) history
92. 1) commendable 2) dubious
 3) insignificant 4) desperate
 5) special
93. 1) played 2) outshining
 3) broken 4) disappointing
 5) brighter
94. 1) exaggerated 2) underplayed
 3) accomplished 4) tampered
 5) noteworthy
95. 1) suggested 2) proposed
 3) futile 4) impracticable
 5) necessary
96. 1) brought 2) laid
 3) struck 4) cooled
 5) weighed
97. 1) complacency 2) progress
 3) debating 4) meticulousness
 5) haste
98. 1) far 2) much
 3) still 4) obviously
 5) found
99. 1) amusingly 2) deplorably
 3) admirably 4) surprisingly
 5) not
100. 1) India 2) world
 3) being 4) independence
 5) compete

QUANTITATIVE APTITUDE

101. Two-fifths of one-third of sixty per cent of a number is 40. What is 125 per cent of that number?
- 1) 550 2) 750
 3) 625 4) 500
 5) None of these
102. Four of the five parts numbered (1), (2), (3), (4) and (5) are exactly equal. Which

of the parts is not equal to the other four?
 The number of that part is the answer.

- 1) $24.8 \times 6.5 - 81.2$
 2) $139.75 + 51.25 - 101$
 3) $11.75 \times 8 - 0.5 \times 28$
 4) $630\% \text{ of } 20 - 23 \times 2$
 5) $35\% \text{ of } 180 + \frac{1}{3} \text{ of } 51$

103. The difference between a two-digit number and the number obtained by interchanging the positions of the digits of that number is 36. What is the sum of the digits of that number?

- 1) 12 2) 8 3) 9
- 4) Data inadequate 5) None of these

104. What approximate value should come in place of the question mark (?) in the following equation?

$$156 \sqrt{15689} + ? = 28638 - 7865$$

- 1) 1235 2) 1465 3) 1725
- 4) 1095 5) 1385

105. The ratio between the present ages of P and Q is 5:7. If Q is 8 years older than P, what will be the ratio of the ages of P and Q after four years?

- 1) 4 : 3 2) 3 : 4 3) 3 : 5
- 4) Data Inadequate 5) None of these

106. Four of the five parts numbered (1), (2), (3), (4) and (5) are exactly equal. Which of the parts is not equal to the other four? The number of that part is the answer.

- 1) $(a+b)^2 - 4ab$
- 2) $(a+b)(a+b) - 4ab$
- 3) $(a+b)(a-b) + 2b(b-a)$
- 4) $(a-b)^2 + 2ab - 2ab$
- 5) $2a^2 + b^2 - 2a(a+b)$

107. In the following number series one wrong number is given. Find out the wrong number.

- 2 4 16 86 610 5480 60512
- 1) 610 2) 5480 3) 4
 - 4) 16 5) 86

108. The average age of 24 students in a class is 15 years. If the teacher's age is included, the average increases by one. What is the age of the teacher?

- 1) 40 years 2) Data inadequate
- 2) 45 years 4) 60 years
- 5) None of these

109. What should come in place of the question mark (?) in the following equation?

$$8 \frac{2}{7} \text{ of } 1568 + 265.75 = ? + 2455.60$$

- 1) 10354.15 2) 11250.15
- 2) 10578.15 4) 10802.15
- 3) None of these

110. The ratio between the length and the breadth of a rectangular plot is 5 : 3. If the perimeter of the plot is 320 metres, what is the area of that plot?

- 1) 4500 sq. metres
- 2) 12000 sq. metres
- 3) 18000 sq. metres
- 4) 6000 sq. metres
- 5) None of these

Directions (Q. 111-115): Each of the questions given below has two statements A and B. You have to decide whether the data provided in the statements are sufficient to answer the questions. Read both the statements and give answer

- 1) If the data in statement A alone are sufficient to answer the question, while the data in statement B alone are not sufficient to answer the question.
- 2) If the data in statement B alone are sufficient to answer the question, while the data in statement A alone are not sufficient to answer the question.
- 3) If the data either in statement A alone or in statement B alone are sufficient to answer the question.
- 4) If the data even in both the statements together are not sufficient to answer the question.
- 5) If the data in both the statements A and B together are needed to answer the question.

111. What is the price of a table?

- A) The total price of 3 tables and 4 chairs is Rs.13,600.
- B) The difference between the price of a table and that of a chair is Rs.800.

112. What is the length of a running train?

- A) The train crosses a man in 9 seconds.
- B) The train crosses a 240-metre-long platform in 24 seconds.

113. What was the rate of interest on a sum of money?

- A) The sum fetched a total of Rs. 2,522 as compound interest at the end of three years.
- B) The difference between the simple interest and the compound interest at the end of two years at the same rate was Rs. 40.

114. What is the difference between the heights of P and Q?

- A) P is 6 cm taller than R, who is 4 cm shorter than Q.
- B) S is 8 cm taller than T, who is 8 cm shorter than P.

115. How much profit did Ashok make by selling a suitcase?

- A) He bought the suitcase with 40 per cent discount on the labelled price.
- B) He sold it with 20 per cent profit on the labelled price.

Directions (Q. 116-120): In each of the following questions a number series is given. After the series, below it a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the given number following the sequence of the given series. Then answer the questions given below it:

116. 15 159 259 323

- 7 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (c)?

- 1) 151 2) 176
- 3) 315 4) 251
- 5) None of these

117. 288 140 66 29

- 448 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (e)?

- 1) 6.25 2) 49
- 3) 18.5 4) 106
- 5) None of these

118. 3 5 23 77

- 7 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (d)?

- 1) 16771 2) 9031

- 3) 2365 4) 13

- 5) None of these

119. 2 9 57 337

- 3 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (b)?

- 1) 553 2) 3323
- 3) 93 4) 15
- 5) None of these

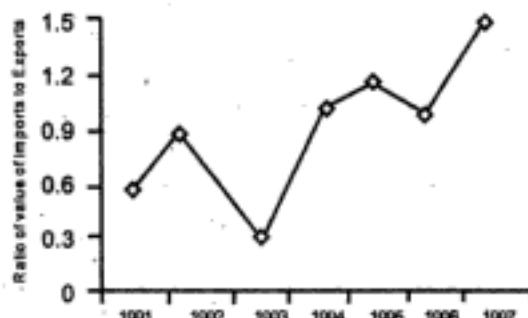
120. 535 366 245 164

- 817 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (e)?

- 1) 648 2) 507
- 2) 387 4) 446
- 5) None of these

Directions (Q. 121-125): Study the following graph carefully and answer questions given below it: Ratio of value of imports to Exports by a company over the years.



121. In how many of the given years were the imports more than the exports?

- 1) 1 2) 2 3) 3 4) 4
- 5) None of these

122. What was the percentage increase in imports from 1993 to 1994?

- 1) $166\frac{2}{3}$ 2) $66\frac{2}{3}$
- 2) $133\frac{1}{3}$ 4) Data inadequate
- 5) None of these

123. If the imports of the company in 1995 were Rs. 270 crores, what were the exports of the company in the same year?

- 1) Rs 240 crore 2) Rs. 180 crore

- 2) Data inadequate 4) Rs. 200 crore
5) None of these
- 124.** If the total exports in 1992 and 1993 together was Rs. 600 crore, what was the total of imports in those two years?
1) Rs. 900 crore 2) Rs. 450 crore
2) Rs. 800 crore 4) Rs. 540 crore
3) Data inadequate
- 125.** In which of the following years were the imports minimum proportionate to the exports of the company?
1) 1993 2) 1996
2) 1991 4) 1992
5) None of these
- Directions (Q.126-130):** Study the following table carefully and answer the questions given below it: Number of Tables and Chairs manufactured by a company over the years.
- | | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| Tables | 18500 | 24200 | 16900 | 12600 | 9600 | 14800 | 17600 | 19400 |
| Chairs | 14600 | 18200 | 25400 | 18800 | 11200 | 16200 | 24200 | 28600 |
- 126.** In which of the following years was the number of chairs manufactured close to 50 per cent of the total number of tables manufactured in 1993 and 1997 together?
1) 1991 2) 1995
2) 1996 4) 1993
3) None of these
- 127.** If the price of a chair in 1994 was Rs. 1600 and the price of table was Rs. 2800 in the same year, what was the ratio between the total value of tables and chairs?
1) 1.5 2) 1.75 2) 2.0 4) 3.0
3) None of these
- 128.** Approximately what was the percentage increase in the number of chairs manufactured from 1991 to 1992?
1) 40 2) 30 3) 20
4) 45 5) 60
- 129.** In which of the following years was the ratio of the number of chairs manufactured to the number of tables manufactured maximum among the given years?
- 1) 1991 2) 1995 3) 1997
4) 1993 5) None of these
- 130.** In which of the following years was the total number of chairs and tables manufactured minimum?
1) 1993 2) 1990 3) 1992
4) 1996 5) None of these
- Directions (Q. 131-135):** Study the following pie charts and answer the questions given below them:
- The following charts represent percentage of five types of employees in an organisation in two years.
-
- | Type | Percentage |
|------|------------|
| A | 22% |
| B | 23% |
| C | 18% |
| D | 29% |
| E | 8% |
-
- | Type | Percentage |
|------|------------|
| A | 24% |
| B | 26% |
| C | 20% |
| D | 20% |
| E | 10% |
- A :** Award Staff
B : First Level Managers
C : Second Level Managers
D : Third Level Managers
E : Executives
- 131.** In the case of the number of which of the following types of employees was the variation maximum between 1995 and 1996?
1) E 2) B 3) C 4) D 5) A
- 132.** If a total number of 300 first level managers left at the end of 1995, how many first level managers joined the company in 1996?

1) 460 2) 280 3) 340

4) Data inadequate 5) None of these

133. If a total number of 1000 executives joined the company in 1996, how many executives left the company in 1995?

1) 440 2) 540 3) 640 4) 240

5) None of these

134. If a total number of 500 second level managers joined the company in 1996, how many third level managers joined in 1996?

1) 200 2) 300 3) 800

4) Data inadequate 5) None of these

135. What was the difference between the number of award staff in 1995 and 1996?

1) 360 2) 840 3) 400

4) Data inadequate 5) None of these

Directions (Q. 136-140): Study the following table carefully and answer the questions given below it: Number of different types of tyres sold by a company over the years (Numbers in Lakh)

Year	A	B	C	D	E	Total
1989	35	20	40	15	25	135
1990	40	15	55	20	35	165
1991	30	25	45	25	30	155
1992	25	30	50	30	35	170
1993	45	35	25	38	32	175
1994	42	28	34	42	30	176
1995	36	34	38	48	25	181

136. What was the difference in the number of C type tyres sold in 1990 and 1994?

1) 21,000 2) 2,10,000

3) 2,10,00,000 4) 21,00,000

5) None of these

137. The total number of A type tyres sold in 1992 and 1993 together was exactly 200 per cent of B type tyres sold in which of the following years?

1) 1993 2) 1991 3) 1992 4) 1990

5) None of these

138. Approximately, what was the percentage increase in the number of D type tyres

sold from 1992 to 1993?

1) 25 2) 40 3) 20 4) 30 5) 35

139. In the case of which of the following types of tyres there was continuous increase in sales over the years?

1) C 2) D 3) E 4) A 5) B

140. In which of the following years the percentage of D type tyres sold to total number of tyres sold was the maximum among the given years?

1) 1995 2) 1990 3) 1992 4) 1994

5) None of these

141. Arun purchased 30 kg of rice at the rate of Rs.18.50 per kg and 20 kg of rice at the rate of Rs.22.50 per kg. He mixed the two. Approximately, at what rate per kg should he sell the mixture to make 25 per cent profit?

1) Rs.25 2) Rs.27 3) Rs.28

4) Rs.30 5) Rs.29

142. The ratio between the profit and the sale price of an article is 1 : 5. What is the ratio between the sale price and the cost price of that article?

1) 3 : 2 2) 4 : 5

3) Data inadequate 4) 5 : 4

5) None of these

143. Amit bought sixteen dozen of mangoes at the rate of Rs.250 per dozen. He spent Rs.500 on transportation. Approximately at what price per dozen should he sell the mangoes to make 25 per cent profit?

1) Rs.460 2) Rs.390

3) Rs.465 4) Rs.350

5) Rs.520

*** 144. What should come in place of the question mark (?) in the following equation?**

35% of 1800 + ? = 45% of 2400 - 340 *

1) 220 2) 130 3) 160

4) 110 5) 22

145. The product of two numbers is 270 and their difference is 3. What is the bigger number?

1) 32 2) 15 3) 18 4) 24

5) None of these

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whether the data provided in the statements are sufficient to answer the questions. Read both the statements and give answer (1) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question; give answer (2) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question; give answer (3) if the data either in statement I alone or in statement II alone are sufficient to answer the question; give answer (4) if the data even in both the statements I and II together are not sufficient to answer the question; and give answer (5) if the data in both the statements I and II together are needed to answer the question.

166. Who among Satish, Vilas, Jayesh and Naresh is the tallest?

- I. Satish is taller than Jayesh who is not as tall as Vilas but is taller than Naresh.
- II. Vilas is not taller than Satish.

167. Among A, B, C, D & E, who is in the middle while standing in a row?

- I. C, who is third to the left of D, is to the immediate right of A and 2nd to the left of E.
- II. C is 2nd to the left of E, who is not at any of the ends and who is third to the right of A. D is at one of the ends.

168. In which year was Tejas born?

- I. Sushant, who is elder than Tejas by two years, is in 3rd standard.
- II. Neelam, elder by 2 years than Sushant, was born to her parents 10 years ago.

169. How many daughters does Shirin have?

- I. Satish and Sunil are brothers of Neelam.
- II. Neelam's father and Shirin's husband are brothers.

170. What does 'No' represent in a code language?

- I. 'Ne Pa Sic Lo' means 'But No None And' and 'Pa Lo Le Ne' means 'if None And But'
- II. 'Le Se Ne Sic' means 'If No None Will' and 'Le Pi Se Be' means 'Not None If All'.

Directions (Q. 171-175): In an office there are eight sections named as I, II, III, IV, V, VI, VII and VIII. No visitor is allowed to visit one section for more than an hour. If a visitor has to visit more than one section, he has to come back to security officer to get fresh visitors' pass by surrendering earlier section's pass.

Every hour the security officer generates seven passwords for all the sections by choosing a set of seven words used for Section I which is reception-cum-visitors hall. Following is an illustration of the generation of seven passwords for each section.

Section:

- I. sri am cue way meat fro le
- II. le cue am way meat fro sri
- III. cue le way am meat sri fro
- IV. fro way le am meat sri cue
- V. way fro am le meat cue sri

An so on till section VIII.

171. A visitor visited Section II in the first fifteen minutes of a new hourly code and wanted to visit Section VI. If his password for Section II was 'ne mew fu six also bet ga', what would be his password for Section VI?

- 1) fu ga ne bet also six mew
- 2) fu ga ne bet six also mew
- 3) six fu bet ga ne also mew
- 4) ga fu bet ne also mew six
- 5) six bet fu also mew ga ne

172. If the first two words of the password of Section III are 'lie spell' which of the following sections' password will begin with the same two words in the same sequence?

- 1) IV 2) V 3) VII 4) VI
- 5) None of these

173. A visitor was given a password 'pit sy me ole try je no'. If at that time the password for Section I was 'me no pit je try ole sy', which of the following sections the visitor wanted to visit?

- 1) VI 2) VIII 2) III 4) IV
- 5) None of these

174. A visitor wanted to visit Section VI but he was wrongly given password for Section

IV 'ear two if rye sit he wu'. What would be his correct password for Section VI, if hourly password remains the same?

- 1) wu it two rye sit wu he
- 2) rye he it ear sit two wu
- 3) two year rye it sit wu he
- 4) he rye ear it sit wu two
- 5) None of these

175. A visitor for section VII has the password 'rye fu che it can si pecha'. What was the password for Section I at that time?

- 1) rye fu si pecha che can it
- 2) pecha che fu it can si rye
- 3) fu rye pecha si can it che
- 4) che pecha rye si can it fu
- 5) None of these

Directions (Q. 176-180): Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the content of the passage and decide upon its degree of truth or falsity. Give answer (1) if the inference is 'definitely true', i.e. it properly follows from the facts given, give answer (2) if the inference is 'probably true' though not 'definitely true' in the light of the facts given, answer (3) if the data are inadequate, i.e. from the facts given you cannot say whether the inference is likely to be true or false, give answer (4) if the inference is 'probably false' though not 'definitely false' in the light of the facts given, give answer (5) if the inference is 'definitely false', i.e. it cannot possibly be drawn from the facts given or it contradicts the given facts. Now read the following information and answer the questions given below it:

Coastal ecosystems are threatened by development-related activities along roughly half of the world's coasts, according to a study conducted recently. The study indicates that about 34 per cent of the world's coasts are at high potential risk of degradation and another 17 per cent are at moderate risk. Most of the coastal ecosystems potentially threatened by development are located within northern temperate and northern equatorial zones. Europe, with 86 per cent of coast at either high or moderate risk and Asia, with 69 per cent of

coast at either high or moderate risk and Asia, with 69 per cent of its coast in these categories are the regions whose coastal ecosystems are most threatened by degradation.

176. Throughout the world sea food will become dearer in near future.

177. The thrust of the developmental activities seems to be concentrated less across European coastal lines than the Asian coastal lines.

178. Deep sea marine life is in great danger now.

179. Coastal ecosystems of areas which are not affected by the development activities, are more likely to be safe and protected.

180. No further development work be carried out towards northern part of the world.

Directions (Q. 181-185): In the following questions, the symbols @, @, =, \$ and \$ are used with the following meaning:

P @ Q means P is greater than Q.

P @ Q means P is either greater than or equal to Q.

P = Q means P is equal to Q.

P \$ Q means P is smaller than Q.

P \$ Q means P is either smaller than or equal to Q.

Now in each of the following questions, assuming the given statements to be true, find which of the two constructions I and II given below them is/are definitely true. Give answer (1) if only conclusion I is true, give answer (2) if only conclusion II is true, give answer (3) if either I or II is true, give answer (4) if neither I nor II is true, and give answer (5) if both I and II are true.

**181. Statements: N \$ A, C @ D, A @ C
Conclusions: I. C @ N II. D \$ A**

**182. Statements: M @ P, N \$ T, P = N
Conclusions: I. M @ T II. P = T**

**183. Statements: U \$ J, K, \$ S, S \$ U
Conclusions: I. U = K II. U @ K**

**184. Statements: E @ R, T = L, L @ E
Conclusions: I. T @ E II. R \$ L**

185. **Statements:** L = K, K \leq B, S @ L
Conclusions: I. S @ K II. L @ B

Directions (Q. 186-190): In each question below, there is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement. Give answer (1) if only assumption I is implicit, give answer (2) if only assumption II is implicit, give answer (3) if either I or II is implicit, give answer (4) if neither I nor II is implicit, and give answer (5) if both I and II are implicit.

186. **Statement:** Unless country 'X' achieves total literacy, it cannot achieve its mission of development.

Assumptions:

- I. It is possible to achieve total literacy in country 'X'.
- II. No development is possible without a proper mission.

187. **Statement:** Many species of animals on our earth are still not studied scientifically and if we do not do this work urgently, many species will face extinction.

Assumptions:

- I. Earth may lose all types of life very shortly.
- II. It is desirable and possible to study scientifically many animal species.

188. **Statement:** Believe me, I have read it in 'A' newspaper.

Assumptions:

- I. 'A' newspaper gives reliable information/news.
- II. I am reporting exactly as it is given in 'A' newspaper.

189. **Statement:** Herbs can safely be used for treating diseases of human beings.

Assumptions:

- I. Herbs cannot be used for treating diseases of animals.
- II. Herbal treatment is getting popular.

190. **Statement:** As poor people in India prefer and use jaggery (gur) rather than sugar, the

government has decided to decontrol and scrap sugar distribution through the Public Distribution System (PDS).

Assumptions:

- I. Jaggery (gur) is freely available at reasonable price to all poor people.
- II. Public Distribution System has lost its utility.

Directions (Q. 191-195): In making decisions about important questions, it is desirable to be able to distinguish between 'strong' arguments and 'weak' arguments insofar as they relate to the question. 'Strong' arguments are those which are both important and directly related to the question. 'Weak' arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question.

Each question below is followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument and which is a 'weak' argument. Give answer (1) if only argument I is 'strong', give answer (2) if only argument II is 'strong', give answer (3) if either I or II is 'strong', give answer (4) if neither I nor II is 'strong' and give answer (5) if both I and II are 'strong'.

191. **Question:** Should system of reservation of posts for socially and economically disadvantaged groups/castes be introduced in the private sector?

Arguments:

- I. Yes, this would give more opportunities of development to these groups/castes.
- II. No, nowhere else in the world is such a practice being followed.

192. **Question:** Should children be legally made responsible to take care of their parents during their old age?

Arguments:

- I. Yes, such matters can only be solved by legal means.
- II. Yes, only this will bring some relief to poor parents.

193. **Questions:** Should the age of voting be raised to 21 years in India?

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Directions (Q. 204-210): Read the following information and answer the questions given below it:

An academic institute has laid down following procedure for admission. Any candidate seeking admission has to collect prospectus and admission form and then submit completed admission form. On the second day after handing over of the form, he must contact concerned window for further instructions on admission, i.e. if he deposits his form on Tuesday, the letter giving decision of admission or otherwise will be handed over only on Thursday. After that he should make payment latest by next day and confirm admission. If a candidate does not collect his letter on the scheduled day or make payment as stipulated, his claim for admission stand cancelled. Following windows handle this work as per time and days given below:

- (i) W1 is open between 10.30 a.m. and 12 noon on Monday, Wednesday and Friday for sale of prospectus and admission forms. On Monday, Tuesday and Wednesday between 11.00 a.m. and 1.00 p.m., it would handover letters about admission.
- (ii) W2 handles payment of fees between 10.30 a.m. to 12 noon on Monday, Wednesday and Friday. It sells admission forms and prospectus between 3.00 p.m. and 4.30 p.m. on Tuesday, Thursday and Saturday.
- (iii) W3 handles payment of fees between 3.00 p.m. and 4.30 on Tuesday, Thursday and Saturday and receives completed forms between 2.00 p.m. and 4.00 p.m. on Monday, Wednesday, Friday and Saturday.
- (iv) W4 issues letters of admission between 4.00 p.m. and 5.30 p.m. on Thursday, Friday and Saturday and receives completed forms between 10.30 a.m. and 12 noon on Monday, Tuesday and Wednesday.

204. Nandu Dighe reached on Thursday to collect form and wanted to submit the form immediately. Which of the following

sequences of windows should he approach to complete these activities?

- 1) W3 and W4 2) W2 and W3
- 3) W1 and W3 4) W1 and W2
- 5) None of these

205. Reshma had submitted the form and was to get letter of admission on Thursday. She wanted to collect letter of admission and make payment on the same day. It was possible for her to reach college only after 3.30 p.m. Which sequence of windows should she approach?

- 1) W1 and W2 2) W1 and W3
- 2) W4 and W3 4) W4 and W1
- 5) None of these

206. Ram Agarwal desires to receive his letter of admission on Saturday. What sequence of activities should he follow?

- 1) W2 on Thursday and W4 on Saturday
- 2) W4 on both Thursday and Saturday
- 3) W3 on Thursday and W4 on Saturday
- 4) W4 on Thursday and W1 on Saturday
- 5) Not possible as no window accepts forms on Thursday

207. Simon Lobo wanted to get letter of admission on Wednesday. Which day and which sequence of windows should he approach for getting and handling over the form?

- 1) Saturday — W1 and W4
- 2) Monday — W1 and either W4 or W3
- 3) Tuesday — W2 and W4
- 4) Monday — W2 and W3
- 5) None of these

208. Ganesh took the form on Monday and wanted to hand it over on Wednesday before 12 noon. Which sequence of windows should he approach for handing over the application and on Friday for getting the admission letter?

- 1) W4 and W4 2) W3 and W1
- 3) W3 and W4 4) W4 and W1
- 5) None of these

209. Seeta Madan collected her letter of admission on Monday and made payment of fees. Which of the following shows the sequence for her activities from date of

submission of form to payment of fees?

- 1) Friday — W3, W4 and W3 on Monday
- 2) Saturday — W2, W3 and W1 on Monday
- 3) Monday — W4, W1 and W3 on Monday
- 4) Friday — W3, W1 and W2 on Monday
- 5) None of these

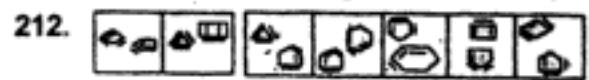
210. Dashrath Doke had given his application on Tuesday and collected his letter of admission on Thursday at 4.45 p.m. He wanted to make payment at the earliest and go to his native place. Which of the following would be the best course for him?

- 1) Friday — W3 2) Thursday — W1
- 2) Saturday — W3 4) Friday — W2
- 3) None of these

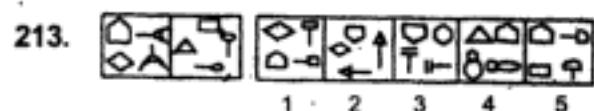
Directions (Q.211-215): In each question below, two Problem Figures are given. These are followed by five Answer Figures (1), (2), (3), (4) and (5). The two Problem Figures have some common characteristics/features. You have to find out the figure out of the five given Answer Figures which has the same commonality. The number of that figure is the answer.



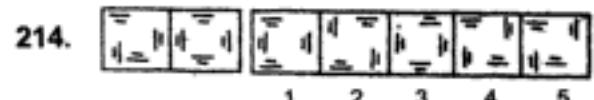
1 2 3 4 5



1 2 3 4 5



1 2 3 4 5



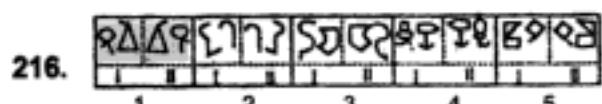
1 2 3 4 5



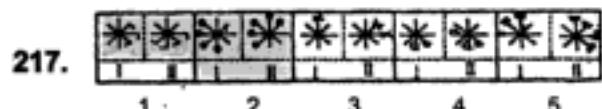
1 2 3 4 5

Directions (Q.216-220): In each of the following questions in four out of the five

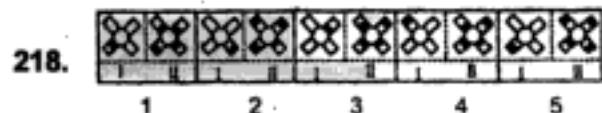
figures, element I is related to element II in the same particular way. Find out the figure in which element I is not so related to element II.



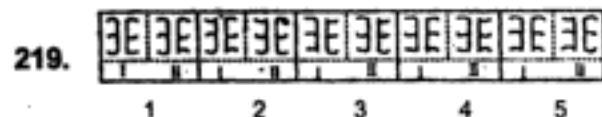
1 2 3 4 5



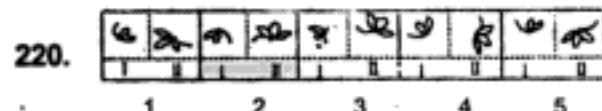
1 2 3 4 5



1 2 3 4 5

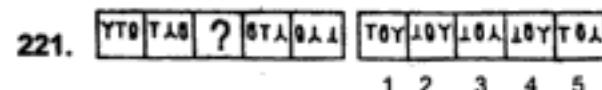


1 2 3 4 5



1 2 3 4 5

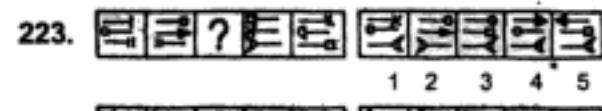
Directions (Q.221-225): Each of the following questions consists of unmarked figures followed by the five figures marked 1, 2, 3, 4 and 5. Select a figure from the marked figures which will replace the question mark so that a series be established by the unmarked figures.



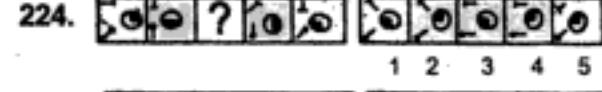
1 2 3 4 5



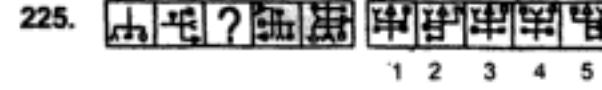
1 2 3 4 5



1 2 3 4 5



1 2 3 4 5



1 2 3 4 5

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123. 5 Import in 1995 = 270 cr; $\frac{E}{1} = 1.2$

\ Export in 1995 = $\frac{270}{1.2}$ = Rs.225 crore

124. 3

125. 1 The E/I is minimum in this year.

126. 2 1996

50% of total of 1993 + 1997 = 18800 +
 $28600 \times \frac{1}{2}$

127. 1 128. 1

129. 5 1992

Year	1990	1991	1992	1993	1994	1995	1996	1997
Ratio C/T	0.79	0.75	1.50	1.49	1.16	1.09	1.37	1.47

130. 5

Year	1990	1991	1992	1993	1994	1995	1996	1997
Total	33100	42400	42300	31400	20800	31000	41800	48000

Total of production is minimum in 1994.

131. 4

	A	B	C	D	E	Total
1995	3960	4140	3240	5220	1440	18000
1996	4800	5200	4000	4000	2000	20000
Variation	840	1080	760	-1220	560	

132. 5 No. of first level managers who joined in 1996

$$= 26\% \text{ of } 20000 - (23\% \text{ of } 18000 - 300) \\ = 5200 - (4140 - 300) = 1360$$

133. 1 No. of executives who left in 1995

$$= (8\% \text{ of } 18000 + 1000) - 10\% \text{ of } 2000 \\ = (1440 + 1000) - 2000 = 440$$

134. 4

135. 2 Difference between no. of award staff in 1995 and 1996

$$= 24\% \text{ of } 20000 - 22\% \text{ of } 18000 = 4800 - 3960 = 840$$

136. 4 Difference in no. of C type tyres in 1990 and 1994 = 55 - 34 = 21 lakh

137. 1 Total of A type of tyres in '92 and '93

$$= 25 + 45 = 70; \text{ Sale of B type tyres} = \frac{70}{2} \\ = 35$$

138. 1 % increase in D type tyres from 1992 to 1993

$$= \frac{38-30}{30} \times 100 \approx 26.625\%$$

139. 2

140. 1 % share of D

Year	1989	1990	1991	1992	1993	1994	1995
% share	11%	12%	16.1%	17.6%	21.7%	23.8%	26.5%

141. 1 $CP = 30 \times 18.50 + 20 \times 22.50 = 555 + 450 = \text{Rs.1005}$

$$\text{Profit} = 0.25 \times 1005 \approx 250$$

$$SP = \frac{1250}{50} = \text{Rs.25}$$

142. 4 Let the profit and SP be x and 5x respectively.

$$\text{Then } CP = 5x - x = 4x \quad \frac{SP}{CP} = \frac{5x}{4x} = 5 : 4$$

143. 4 $CP = 16 \times 250 + 500 = 4000 + 500 = \text{Rs.4500}$

$$SP = \frac{4500 \times 1.25}{16} = \text{Rs.350}$$

$$144. 4 ? = 0.45 \times 2400 - 340 - 0.35 \times 1800 \\ = 1080 - 340 - 630 = 110$$

145. 3 Let the numbers be x and y respectively.

$$x - y = 3 \dots (1)$$

$$xy = 270$$

$$(x + y)^2 = (x - y)^2 + 4xy \\ = (3)^2 + 4 \times 270 = 9 + 1080 = 1089$$

$$x + y = \sqrt{1089} = 33 \dots (2)$$

$$\text{From (1) and (2)} \quad 2x = 36 \quad \text{or } x = 18$$

146. 3

$$147. 2 ? = 15870 + 13980 - 8670 + 11530 \approx 32710 \approx 32700$$

148. 2 Let the amount = x

$$\frac{x}{14} - 80 = \frac{x}{18}$$

$$\text{or}, \frac{x}{14} - \frac{x}{18} = 80 \Rightarrow 2x = 80 \times 126$$

$$\text{or}, x = \frac{80 \times 126}{2} = \text{Rs. 5040}$$

$$149. 3 ? = \frac{42 \times 35 \times 100}{3675} = 40\%$$

$$150. 5 ? = 136.468 + 677.42 = 813.888$$

TEST OF REASONING

- 151.** 2 In this group, the sequence is +5, +7. In all others, the sequence is +6, +7.
- 152.** 5 The correct answer is F D 3.
- 153.** 2 ~~2PJ @ 8 L \$ L B 1 V # Q 6 d G W 9 K C~~
~~D 3 • Δ £ 5 F R 7 A Y 4~~
- 154.** 4 The new sequence will be
~~2PJ 8 @ L \$ B 1 V Q # 6G 5 W 9K CD 3 Δ~~
~~• 5£ FR 7 A Y 4~~
- 155.** 2 The sequence formed by the eliminated elements =
~~P @ \$ B V Q 8 W K D • E F 7 Y~~
In the above sequence,
No. of symbols = {(@, \$, 8, *, £)}
No. of letters = {P, B, V, Q, W, K, D, F, Y} = 9
No. of numbers = {7} = 1
- 156.** 2 **157. 2**
- 158.** 1 I follows by converting the first statement while II does not. III follows by converting the second statement. All boys are girls + Some girls are men = A + I = No conclusion. Hence IV does not follow.
- 159.** 5 **160. 5**
- 161.** 3 **A D V E R T I S E M E N T**
- 162.** 2 The odd-numbered letters move two letters ahead while the even-numbered ones move three letters ahead.
- 163.** 3 In other groups, 2nd and 3rd letters are equidistant from the beginning as well as from the end respectively.
- 164.** 5 **165. 5**
- 166.** 5 From I, S > J > N and V > J > N. From II, S > V. Combining these, we get S > V > J > N.
- 167.** 3 From I, we get AC—ED. Hence, the middle position must be occupied by B.
- 168.** 5 From II we get Sushant's age
= 10 - 2 = 8 yrs.
Combining this with I, Tejas' age
= 8 - 2 = 6 yrs.
If we know Tejas' age, we may easily calculate when he was born, i.e., 6 yrs ago.
- 169.** 4 The information is regarding Shirin's brother-in-law's children.

- 170.** 1 From I, we get that 'Sic' stand for 'No'.
- 171-175:** If we use digit codes for words, it is more convenient. So, let sri - 1, am - 2, cue - 3, way - 4, meat - 5, fro - 6 and le - 7. Then the sections change in the following manner:

Section

I.	1	2	3	4	5	6	7
II.	7	3	2	4	5	6	1
III.	3	7	4	2	5	1	6
IV.	6	4	7	2	5	1	3
V.	4	6	2	7	5	3	1

By now, the algorithm is clear.

From I to II: The first word interchanges its position with last. So does the second with the third.

From II to III: If we ignore the fifth word, we are left with three pairs of words. An interchange of words takes place within each pair.

And this goes on being repeated. That is, the change from III to IV is similar to that from I to II. Similarly, the change from IV to V is similar to that from II to III. And so on. Thus, we may now write the arrangement upto Section VIII.

VI.	1	2	6	7	5	3	4
VII.	2	1	7	6	5	4	3
VIII.	3	7	1	6	5	4	2

171. 4

172. 5 The first two words of Section III are 3 and 7. It is obvious from the table that Section VIII also begins with the same words.

173. 2 From section I, me - 1, no - 2, pit - 3, je - 4, try - 5, ole - 6 and sy - 7. Thus the given password may be represented as 3716542, which clearly indicates Section VIII in the above table of ours.

174. 4

175. 3 Section VII:

rye fu che it can si pecha
(from table): 2 1 7 6 5 4 3

176. 3 We are talking of coasts, not of sea life.

177. 5 It is the other way round, going by the figures mentioned.

178. 3 Same as Q. 176-above.

179. 1

- 180. 2** Since development has so threatened the coastal systems of Europe and Asia, the northern part of the world, one may expect such an injunction from the tone of the passage.
- 181. 2**
- 182. 4** $M > P \dots (i) N \leq T \dots (ii); P = N \dots (iii)$
 (i) does not follow because we can get no conclusion between M and T.
 From (ii) and (iii), $P = N \leq T$ or $P \leq T$.
 Hence II does not necessarily follow.
- 183. 3** $U < J \dots (i); K \leq S \dots (ii); S \leq V \dots (iii)$
 Combining these, we get
 $K \leq S \leq U < J$
 Thus, $U \geq K$. Hence, either $U = K$ or $U > K$.
- 184. 2** **185. 1**
- 186. 1** I is implicit because a person would not talk about a condition unless he or she assumes its possibility. II is not implicit because not much importance is attached to the "mission of development".
- 187. 2** I is an extreme assumption and hence not implicit. For II, similar reasoning as in Q. 186 above.
- 188. 5** I is implicit because you quote a source only when you assume it to be reliable. II is also implicit because you won't ask someone to believe your words if you feel you are misquoting.
- 189. 4**
- 190. 4** II is not implicit because PDS may have lost its utility in the context of sugar but we can't generalise the statement. Nor can we assume I because it is possible that poor people use jaggery after procuring it through PDS.
- 191. 1** I is strong because it would help in the creation of an egalitarian society. II is weak because it goes in for comparison that does not validate our statement.
- 192. 4**
- 193. 2** I is weak because it talks about the implementation not the decision *per se*. II is strong because responsibility and maturity are desirable prerequisites of voting.
- 194. 4** I does not talk anything concrete while II simply doesn't improve things: passing easily will only erode the credibility of such courses.
- 195. 1** I is strong while II is not because what is of primary importance is education; salary of teachers is only a means, not the end.
- 196-199:** length = m = 4 cm; breadth = n = 3 cm; height = p = 3 cm
- 196. 1** No. of cubes having no colour
 $= (m - 2)(n - 2)(p - 2) = 2 \times 1 \times 1 = 2$
- 197. 1** No. of cubes having any two colours.
 $= 4 [(m - 2) + (n - 2) + (p - 2)]$
 $= 4 [2 + 1 + 1] = 4 \times 4 = 16$
- 198. 1** No. of cubes having only one colour
 $= 2[(m - 2)(n - 2) + (n - 2)(p - 2) + (p - 2)(m - 2)]$
 $= 2[(4 - 2)(3 - 2) + (3 - 2)(4 - 2)]$
 $= 2[2 \times 1 + 1 \times 1 + 1 \times 2] = 2[2 + 1 + 2] = 2 \times 5 = 10$
- 199. 5** Only the corner cubes can have all the three colours. Hence, no. of such cubes = 8
- | 200-203: | Rank | Performance | Popularity |
|----------|------|-------------|------------|
| | 1 | F | A |
| | 2 | B | |
| | 3 | E | E |
| | 4 | D | |
| | 5 | A | |
| | 6 | C | D |
- 200. 4** **201. 1** **202. 2** **203. 5**
- 204-210:**
- | Windows | Sale of form | Receives form | Letters of Admission | Fees |
|---------|------------------------|-------------------------|------------------------|------------------------|
| W1 | M,W,F
10.30-12.00 | | M, Tu, W
11.00-1.00 | |
| W2 | Tu, Th, S
3.00-4.30 | | | M,W,F
10.30-12.00 |
| W3 | | M,W,F,S
2.00-4.00 | | Tu, Th, S
3.00-4.30 |
| W4 | | M, Tu, W
10.30-12.00 | Th, F, S
4.00-5.30 | |
- 205. 2**
- 206. 5** To get letter of admission on Saturday, the form must be deposited on Thursday. But no window receives form on Thursday.
- 207. 2** He can get the letter of admission on Wednesday only if the form is received on Monday.
- 208. 1**

209. 4 Deposit of form — W3 (Fri: 2.00-4.00)
Letter of admission — W1
(Mon: 11.00-1.00)
Fees — W2 (Mon: 10.30-12.00)
210. 4
211. 1 The difference of no. of sides of outer and middle is two. That of inner and middle is one.
212. 3 The no. of sides of right figure is one more than the left. The left fig has two outer and one inner lines and the right fig has one outer and two inner lines.
213. 3 The no. of sides of fig un CW side is one more than that of fig on ACW side. The direction of other two elements is ACW.
214. 2 **215. 5**
216. 2 In others the second is the mirror image of the first.
217. 5 The fig. in the first rotates by 90° CW and one similar element is added on the ACW side.
218. 4 The existing shaded half moves to another half and similar halves of the remaining three extensions get shaded.
219. 1 In others two curves get inverted while in this only one gets inverted.
220. 2 The entire figure rotates by 180°. The incomplete petal gets completed and a curve is added to get the second fig.
221. 4 One of the elements gets inverted and interchanges with another. The one which does not interchange gets inverted. The process begins with the left.
222. 2 One extra square is shaded in each step alternately on ACW and CW side. The lone shaded square moves one and four squares alternately and follows the path downward and upward in alternate columns.
223. 5 The upper two elements interchange in each step and get inverted while the lower one gets inverted in each step. The heads of the elements are replaced in alternate steps.
224. 2 In alternate steps the upper left element rotates 90° and 135° CW, the lower left element rotates 45° and 135° ACW and the shading of central element becomes half and quarter. The central element rotates by 90° in each step.
225. 1 The whole figure rotates by 90° ACW in each step. The elements move half step ACW and a new element is added on CW side.

STATE BANK OF INDIA PROBATIONARY OFFICERS' EXAMINATION

(Held in February 1999)
GENERAL AWARENESS

1. Which of the following rays of the sunlight help the solar cooker in its heating?
 - 1) Red light rays
 - 2) Ultraviolet rays
 - 3) Cosmic rays
 - 4) Infra-red rays
 - 5) None of these
2. In which of the following States, farmers burnt their cotton crops in suspicion of 'terminator seed technology' based 'bollgard' seeds?
 - A) Karnataka
 - B) Andhra Pradesh
 - C) Gujarat
 - 1) A and B only 2) A and C only
 - 3) B only 4) A only
 - 5) C only
3. Which of the following war ships of India has now been converted into a floating museum?
 - 1) INS Vikrant 2) INS Hamla
 - 3) INS Delhi 4) INS Khukhri
 - 5) None of these
4. Who among the following had been appointed as Chairman of the Committee found to solve dispute over inclusion of Haridwar and Udhamsingh Nagar District in the proposed Uttranchal?
 - 1) Jaswant Singh
 - 2) George Fernandes
 - 3) L.K. Advani
 - 4) Madan Lal Khurana
 - 5) Sushma Swaraj
5. Which of the following combinations of the books and their authors is not correct?
 - 1) *Canvas of Life* - Sheila Gujral
 - 2) *Surviving Men* - Shobha De
 - 3) *The Dark side of Camelot* - Salman Rushdie
 - 4) *The Everest Hotel* - Allan Sealy
 - 5) *Pride of India* - Persis Khambatta
6. Which of the following is true about India's position on intellectual property protection?
 - A) India has joined the Paris Convention for Protection of Intellectual Property and Patent Cooperation Treaty
 - B) India has refused to join the Paris Convention
 - C) India has agreed to join the Paris Convention provided the patents of basmati rice and turmeric are allotted to her.
 - 1) A, B and C 2) Only A
 - 3) Only B 4) Only B and C
 - 5) Only C
7. To which of the following countries does Miss World 98 belong?
 - 1) Venezuela 2) France
 - 3) Malaysia 4) Columbia
 - 5) Israel
8. Anwar Ibrahim, facing corruption charges and now in the Jail, was Deputy Prime Minister of which of the following countries?
 - 1) Malaysia 2) Laos
 - 3) Indonesia 4) Bangladesh
 - 5) Thailand
9. Which of the following countries attacked Iraq in December 1998?
 - 1) Britain and USA
 - 2) USA and Kuwait
 - 3) France and USA
 - 4) Germany and USA
 - 5) USA and Italy
10. Which of the following is true about the hurricane swept through central America on November 1, 1998?
 - A) It took the lives of about 20000 people.
 - B) It caused massive rains even in countries like Japan and India.
 - C) The hurricane was said to have returned after three months with all severity.
 - 1) Only C is true
 - 2) Only B is true
 - 3) Only A is true
 - 4) All the three are true
 - 5) None of them is true

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- 24. Which of the following combination of awards and their recipients is not correct?**
- Right Livelihood Award, 1997 - Mycle Schneider
 - Gandhi Peace Prize, 1998 - gerhard Fischer
 - Magsaysay Award for public Service 1998 - K.R. Narayanan
 - Gandhi Award, 1998 - Sheikh Hasina
 - All are correct
- 25. How many Indians have won the Nobel Prize before Prof. Amartya Sen?**
- 5
 - 6
 - 4
 - 3
 - None of these
- 26. In November 1998, besides Delhi, M.P. and Rajasthan, which of the following was the fourth State where Assembly Elections were held?**
- Meghalaya
 - Arunachal Pradesh
 - Manipur
 - Mizoram
 - None of these
- 27. The World Watch Institute has warned that an Asian country may be the most populous country on Earth by the year 2050. Which of the following is that country?**
- Pakistan
 - China
 - India
 - Nepal
 - None of these
- 28. Which of the following women are associated with the controversial movie, Fire?**
- Deep Mehta
 - Shabana Azmi
 - Nandita Das
 - A and C
 - Only B
 - A and B
 - A, B and C
 - None of these
- 29. Which of the following statements is/are true about the famous Y2K problem related to computers?**
- Computer system will not recognise the year 2000.
 - This problem will be effective on December 31, 1999 midnight.
 - All the computers which are connected through Internet will stop functioning because of the computer virus Y2K.
 - A and C only
 - C only
 - A and B only
 - A only
 - B only
- 30. Which of the following is true about the 53rd UN General Assembly Meet?**
- It concluded in September 1998
 - India urged to put a global ban on nuclear weapons
 - Pakistan raised the issue of Kashmir
 - Only B
 - Only C
 - Only A
 - All are true
 - None of these is true
- 31. As per the recent reports about how many cases are pending in various courts in India (in millions)?**
- 50
 - 30
 - 5
 - 20
 - 10
- 32. Which of the following cricket players was not found involved in the Australia-Pakistan match fixing?**
- Wasim Akram
 - Steve Waugh
 - Salim Malik
 - Mark Waugh
 - Shane Warne
- 33. Which among the following teams won gold in Hockey in 13th Asian Games held recently?**
- China
 - North Korea
 - South Korea
 - Pakistan
 - None of these
- 34. On November 18, 1998 in which Zodiac constellation was the meteorite shower caused by the passage of Temple Tutle comet visible?**
- Virgo
 - Scorpio
 - Leo
 - Aries
 - None of these
- 35. Which of the following States, has become the first State, in the country to set up permanent Lok Adalats at all levels?**
- Sikkim
 - Karnataka
 - Kerala
 - Maharashtra
 - Rajasthan
- 36. Chinese President Jiang Zemin visited which of following countries on a historic visit to celebrate 20th anniversary of the Friendship Treaty with that country?**
- Japan
 - South Korea
 - Thailand
 - Vietnam
 - North Korea
- 37. Which of the following countries is the first Chairperson of newly-formed Standing Committee on Information Technology related to Intellectual Property Rights?**

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TEST OF ENGLISH LANGUAGE

Directions (Qs. 1 to 15): Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you to locate them while answering some of the questions.

Management is a set of processes that can keep a complicated system of people and technology running smoothly. The most important aspects of management include planning, budgeting, organising, staffing, controlling, and problem solving. Leadership is a set of processes that creates organisations in the first place or adapts them to significantly changing circumstances. Leadership defines what the future should look like, aligns people with that vision, and inspires them to make it happen despite the obstacles. This distinction is absolutely crucial for our purposes here: Successful transformation is 70 to 90 percent leadership and only 10 to 30 percent management. Yet for historical reasons, many organisations today don't have much leadership. And almost everyone thinks about the problem here as one of managing change.

For most of this century, as we created thousands and thousands of large organisations for the first time in human history, we didn't have enough good managers to keep all those bureaucracies functioning. So many companies and universities developed management programmes, and hundreds and thousands of people were encouraged to learn management on the job. And they did. But, people were taught little about leadership. To some degree, management was the main item on the twentieth century agenda because that's what was needed. For every entrepreneur or business builder who was a leader, we needed hundreds of managers to run their ever-growing enterprises.

Unfortunately for us today, this emphasis on management has often been institutionalised in corporate cultures that discourage employees from learning how to lead. Ironically, past success is usually the key ingredient in producing this outcome. The syndrome, as I have observed it on many occasions, goes like this: success creates some degree of marked dominance, which in turn produces much growth. After a while keeping the ever-larger organisation under control becomes the primary challenge. So attention turns inward, and managerial competencies are **nurtured**. With

a strong emphasis on management but not leadership, bureaucracy and an inward focus take over. But with continued success, the result mostly of market dominance, the problem often goes unaddressed and an unhealthy arrogance begins to evolve. All of these characteristics then make any transformation effort much more difficult.

Arrogant managers can overestimate their current performance and competitive position, listen poorly, and learn slowly. Inwardly focussed employees can **smother** those who want to respond to shifting conditions. And the lack of leadership leaves no force inside these organisations to break out of the morass.

1. Why were people taught little about leadership in management programmes?
 - 1) Leadership was considered only a political phenomenon.
 - 2) Focus of these programmes was on developing managers.
 - 3) Teachers were busy in understanding the phenomenon of leadership.
 - 4) Enough study material was not available to facilitate teaching of leadership.
 - 5) None of these
2. In the passage, management is equated with
 - 1) Bureaucracy
 - 2) Organisational vision
 - 3) Managerial training
 - 4) Organization
 - 5) Leadership
3. What, according to the author, is leadership?
 - 1) Carrying out the crucial functions of management
 - 2) Process which keeps system of people and technology running smoothly
 - 3) Planning the future and budgeting resources of the organisation
 - 4) Inspiring people to realise the vision
 - 5) None of these
4. Which of the following is not the characteristic of bureaucratic culture?
 - 1) Prevalence of unhealthy arrogance.
 - 2) Managers tend to stifle initiative and innovation
 - 3) Managers listen poorly and learn slowly.
 - 4) Managerial competencies are nurtured

- 5) Employees clearly see the forces that present threats and opportunities.
5. Which of the following statements is /are definitely true in the context of the passage?
- Bureaucracy fosters strong and arrogant culture.
 - Leadership competencies are nurtured in large size organisations.
 - Successful transformation in organisations is 70 to 90 percent leadership.
- Only (B)
 - Only (A) and (B)
 - Only (C)
 - Only (B) and (C)
 - Only (A) and (C)
6. What is the historical reason for many organisations not having leadership?
- Leaders allow too much complacency in organisations.
 - A view that leaders are born, they are not made.
 - Leaders lack managerial skills and organisations need managers.
 - Leaders are weak in carrying out traditional functions of management.
 - None of these
7. Why did companies and universities develop programmes to prepare managers in such a large number?
- Organisations did not want to spend their scarce resources in training managers.
 - Organisations wanted to create communication network through trained managers
 - Companies and Universities wanted to generate funds through these programmes
 - The large number of organisations were created and they needed managers in good number
 - None of these
8. Why does the attention of large organisations turn inward?
- Their success creates market dominance
 - They want to project their predictability
 - They have to keep themselves under control
 - Their managers become arrogant
 - None of these
9. Which of the following characteristics help organisations in their transformation efforts?
- Failing to acknowledge the value of customers and shareholders
 - Bureaucratic and inward looking approach
 - Emphasis on leadership but not management
 - A strong and dogmatic culture
 - None of these
10. Which of the following is SIMILAR in meaning of the word 'SMOTHER' as used in the passage?
- attack
 - criticise
 - suppress
 - encourage
 - instigate
11. Why, according to the author, a distinction between management and leadership is crucial?
- In today's context, organisations need leaders much than managers in transforming them
 - Organisations are pursuing the strategy of status - quo
 - Leaders are reactive whereas managers are proactive
 - Organisations are facing problems of not getting good managers
 - None of these
12. Which of the following is SIMILAR in meaning of the word 'NURTURED' as used in the passage?
- halted
 - surfaced
 - created
 - thwarted
 - developed
13. Which of the following statements is NOT TRUE in the context of the passage?
- Managers believe that they are the best and that their idiosyncratic traditions are superior.
 - Pressure on managers comes mostly from within.
 - Leadership centres on carrying out important functions such as planning and problem solving
 - Bureaucratic culture smothers those who want to respond to changing conditions.
 - Leadership produces change and has the potential to establish direction.
14. Management education was emphasised in the management programmes because
- management was the main item of agenda in organisations

- 2) organisations wanted to create powerful guiding coalition
 3) establishing direction was the main focus of organisations.
 4) strategies for producing change was the main focus of organisations
 5) motivating employees was thought to be done by managers.
- 15. How has the author defined management?**
- 1) Creating better performance through customer orientation
 - 2) It refers to creating a vision to help direct the change effort.
 - 3) It is the system of aligning people with the direction it has taken.
 - 4) It is the process of adapting organisations to changing circumstances.
 - 5) None of these
- Directions (Qs. 16 to 25):** Pick out the most effective word from the given words to fill in the blank to make the sentence meaningfully complete.
- 16. His death ____ many tributes than have been paid at the ____ of any other human being in history.**
- 1) acknowledged - perpetuation
 - 2) invited - living
 - 3) brought - passing
 - 4) directed - helm
 - 5) delivered - description
- 17. If misery is the effect of ill-fortune, it ought to be pitied; if of ____ to be ____.**
- 1) vice - reverenced
 - 2) virtue - criticised
 - 3) virtue - reverenced
 - 4) virtue - protected
 - 5) calamity - reverenced
- 18. Vision is usually ____ most effectively when many different ____ are used.**
- 1) communicated - vehicles
 - 2) described - thought
 - 3) developed - manifestations
 - 4) adapted - organisations
 - 5) exhibited - forms
- 19. All the performances of human art, at which we look with praise or wonder, are ____ of the restless ____ of perseverance.**
- 1) proofs - humanity
 - 2) visions - future
 - 3) manifestations - pronouncement
 - 4) projections - component
 - 5) instances - force
- 20. It is the ____ of selfishness for men, who fully ____ in their own case the great advantages of good education, to deny these advantages to women.**
- 1) level - advance
 - 2) height - assimilate
 - 3) degree - appreciate
 - 4) height - appreciate
 - 5) parody - demand
- 21. People who have been through difficult, painful and not very ____ change efforts often end up ____ both pessimistic and angry conclusions.**
- 1) challenging - lamenting
 - 2) reliable - evolving
 - 3) successful - drawing
 - 4) meaningful - projecting
 - 5) strong - following
- 22. Only with executive ____ can the organisation concentrate its energies on ____ competitive advantage over time.**
- 1) deployment - directing
 - 2) satisfaction - moulding
 - 3) commitment - sustaining
 - 4) position - embarking
 - 5) contingent - fabricating
- 23. It would be impossible for us to continue living in this world if each of us ____ exactly what fate had in ____ for him.**
- 1) design - anticipation
 - 2) visualise - hidden
 - 3) knew - store
 - 4) follow - plan
 - 5) appreciate - strategy
- 24. The learner should be ____ to take a small first step - one that will provide immediate, success and ____ the learning.**
- 1) directed - reorganise
 - 2) encouraged - reinforce
 - 3) encouraged - acknowledge
 - 4) cautioned - reinforce
 - 5) forced - organise
- 25. The human mind is never ____, it advances or it ____.**
- 1) stationary - retrogrades
 - 2) perfect - disintegrates
 - 3) absolute - diminishes
 - 4) happy - decomposes
 - 5) dynamic - stop
- Directions (Qs. 26 - 30):** In each of the following questions an idiomatic expression and its four possible meanings are given. Find

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- C) The revolutionary spirit of Netaji was never damped even after the surrender of Japan.
- D) He knew that a war of liberation demanded great spirit, great sacrifice, courage and patience.
- 1) CBDA 2) BCDA
 3) BCAD 4) DCBA
 5) CBAD
39. A) They think that India will disintegrate like the Soviet Union or Yugoslavia.
- B) What will be the exact shape of India in 2000 A.D. can only be a matter of surmise.
- C) On the contrary, the blind patriots foresee a very bright future for India.
- D) The prophets of doom say that the future of India is doomed.
- 1) DBAC 2) BCAD
 3) BCDA 4) DABC
 5) BDAC
40. A) But all work is not education.
- B) In India, a majority of our people do hard work, strenuous physical work, but all are not educated.
- C) It aims at concrete and objective realisation of the ideas and is of great educative value.
- D) 'Work' is that activity of man which has a definite objective.
- 1) BCDA 2) CBAD
 3) DBCA 4) DCAB
 5) BACD

Directions (Qs. 41 to 50): In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate words.

Although John Wisdom's writings in philosophy show clearly the influence of Wittgenstein, they nevertheless also display a 41 originality. Despite the 42 and difficulty of his style, a careful reading of Wisdom is seldom 43 . He is unique kind of genius in philosophy.

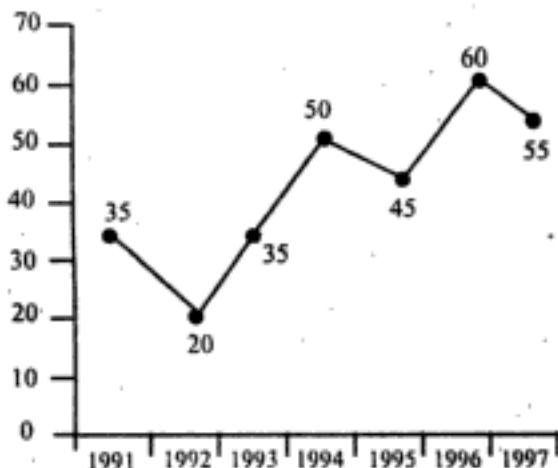
This essay is an excellent example of Wisdom's repeated attempts to 44 the ultimate bases of philosophical perplexity. A great deal of the time Wisdom is 45 interested in finding

out why metaphysicians feel 46 to utter such strange sentences. (e.g. "Time is a unreal," "There are no material things", etc.) According to Wisdom such sentences are both false (and perhaps meaningless) and yet 47 . Even more than Wittgenstein, Wisdom has stressed the 'therapeutic' conception of philosophy, a view that comes out clearly in this essay where he emphasises the analogy between philosophical and neurotic distress 48 them with other kinds of problems.

The reader who is interested in gaining a fuller 49 with Wisdom's thought is referred to his famous article "Gods" in philosophy and psycho-analysis. Other Minds is Wisdom's most 50 discussion of a single topic and in many ways his finest work.

- | | |
|--------------------|------------------|
| 41. 1) relative | 2) limited |
| 3) concise | 4) virtual |
| 5) marked | |
| 42. 1) complexity | 2) creativity |
| 3) novelty | 4) individuality |
| 5) originality | |
| 43. 1) useful | 2) unprofitable |
| 3) unreliable | 4) durable |
| 5) advantageous | |
| 44. 1) fortify | 2) explore |
| 3) jettison | 4) augment |
| 5) delimit | |
| 45. 1) happily | 2) reluctantly |
| 3) admirably | 4) primarily |
| 5) advertently | |
| 46. 1) adapted | 2) alluded |
| 3) depressed | 4) confined |
| 5) compelled | |
| 47. 1) unreliable | 2) illuminating |
| 3) critical | 4) confusing |
| 5) damaging | |
| 48. 1) advocating | 2) compelling |
| 3) associating | 4) contrasting |
| 5) describing | |
| 49. 1) elaboration | 2) acquaintance |
| 3) analysis | 4) comparison |
| 5) agreement | |
| 50. 1) prolific | 2) prolonged |
| 3) sustained | 4) projected |
| 5) attributed | |

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11. If the income in 1994 was Rs. 25 lakhs, what was the expenditure in that year?
 1) 16.67 lakhs 2) 15.67 lakhs
 3) 16.33 lakhs 4) 16 lakhs
 5) None of these
12. During which year the ratio of percentage net profit earned to that in the previous year is the minimum?
 1) 1996
 2) 1993 and 1994 both
 3) 1994
 4) 1993, 1994 and 1996
 5) 1993
13. If the expenditure in 1993 was 20% more than the expenditure in 1991, by what per cent the income in 1993 was more/less than the income in 1991?
 1) 27% 2) Data inadequate
 3) 25% 4) 20%
 5) None of these
14. If the expenditure in 1995 and 1997 was equal and income in 1997 was 15.5 lakhs, what was the income in 1995?
 1) 14 lakhs 2) 12.5 lakhs
 3) 13.5 lakhs 4) Data inadequate
 5) None of these
15. During which of the following years was the ratio of income to expenditure the minimum?
 1) 1996 2) 1995
 3) 1994 4) 1991
 5) None of these

Directions (Q. 16 - 20): In each of the following questions, a number series is given. Only one number is wrong in this series. Find out that wrong number, and taking this wrong number as the first term of the second series

formed, following the same logic, find out the fourth term of the second series.

16. 438 487 447 476 460 469
 1) 475 2) 496
 3) 425 4) 485
 5) None of these
17. 6 8 10 42 146 770 4578
 1) 858 2) 868
 3) 882 4) 8872
 5) None of these
18. 8 4 4 6 12 28 90
 1) 24 2) 21
 3) 42 4) 18
 5) None of these
19. 17 17.25 18.25 20.75 24.5 30.75
 1) 24.25 2) 24.5
 3) 24.75 4) 23.25
 5) None of these
20. 2 7 18 45 99 209 431
 1) 175 2) 174
 3) 172 4) 171
 5) None of these

Directions (Q. 21 - 25): Refer to the table and answer the questions given below:

Distribution of marks obtained by 100 students in two papers (I & II) in Mathematics

Marks out of 50 Paper	40 & above	30 & above	20 & above	10 & above	0 & above
I	5	22	67	82	100
II	8	31	79	91	100
(Aggregate) Average	6	27	71	88	100

21. How many students have scored less than 40% marks in aggregate?
 1) 29 2) 17
 3) 12 4) 30
 5) None of these
22. How many students will pass if there is compulsory passing of minimum 40% marks only in Paper II?
 1) 8 2) 5
 3) 31 4) 67
 5) None of these
23. What should be the passing marks if minimum 80 students are required to be qualified with compulsory passing only in Paper I?

Sura's P.O. (Q & A)

- 1) Above 40 2) Below 20
 3) Below 40 4) Above 20
 5) None of these
24. What will be the difference between the number of students passed with 30 as cut-off marks in Paper II and the no. of students passed with same cut-off marks in aggregate?
 1) 3 2) 8
 3) 4 4) 2
 5) None of these
25. What is the approximate percentage of students who have obtained 60% and more marks in Paper II over the number of students who obtained 40% and more marks in aggregate?
 1) 48 2) Date inadequate
 3) 40 4) 44
 5) None of these
- Directions (Q. 26 - 30):** In each of the following questions, a question is asked followed by three statements. You have to study the questions and all the three statements given and decide whether any information provided in the statement(s) are redundant and can be dispensed with while answering the questions?
26. What will be the ratio between the ages of Samir and Anil after five years?
 A. Samir's present age is more than Anil's present by 4 years.
 B. Anil's present age is 20 years.
 C. Anil and Samir's present ages are in the ratio 3 : 4.
 1) B only 2) C only
 3) B or C only 4) A or B or C only
 5) A or C only
27. A boat will take how much time to cross the river against the stream of the river?
 A. In still water the speed of the boat is 15 km/hour.
 B. The width of the river is 8 km.
 C. The speed of the stream is 2 km/hr.
 1) It is not possible to answer the question with the help of all the three statements A, B and C.
 2) Only C 3) Only A
 4) Only B
 5) All A, B, C are required to answer the question
28. What is the area of the given rectangle?
 A. Perimeter of the rectangle is 60 cms.
 B. Breadth of the rectangle is 12 cms.
- C. Sum of two adjacent sides is 30 cms.
 1) B only 2) C only
 3) A or C only 4) A only
 5) A or B only
29. Mr. X borrowed a sum of money on compound interest. What will be the amount to be repaid if he is repaying the entire amount at the end of two years?
 A. The rate of interest is 5 p.c. p.a.
 B. Simple interest fetched on the same amount in one year is Rs. 600.
 C. The amount borrowed is 10 times the simple interest in two years.
 1) All A, B and C are required to answer the question.
 2) A or B only 3) A only
 4) C only 5) A or C only
30. Who is the tallest among M, P, Q and R?
 A. P is taller than Q but not as tall as R.
 B. R is taller than M.
 C. M is taller than P but not as tall as R.
 1) B or C only 2) A or C only
 3) C only 4) B only
 5) A or B only
- Directions (Q. 31 - 37):** Study the given graph and table and answer the following questions given below.
- The total population of the different States in 1993 is 25 lakhs
-
- | State | Population (%) |
|-------------|----------------|
| U.P. | 25% |
| Bihar | 20% |
| Maharashtra | 11% |
| T.N. | 12% |
| Karnataka | 15% |
| A.P. | 9% |
- Sex - and literacywise population ratio**
- | States | Sex | | Literacy | |
|-------------|-----|---|----------|------------|
| | M | F | Literate | Illiterate |
| U.P. | 5 | 3 | 2 | 7 |
| Bihar | 3 | 1 | 1 | 4 |
| A.P. | 2 | 3 | 2 | 1 |
| Karnataka | 3 | 5 | 3 | 2 |
| Maharashtra | 3 | 4 | 5 | 1 |
| Tamil Nadu | 3 | 2 | 7 | 2 |
| Kerala | 3 | 4 | 9 | 4 |
31. What is the ratio of literates in Andhra Pradesh to the literates in Bihar?

- 1) 3 : 5 2) 3 : 2
 3) 2 : 3 4) 2 : 5
 5) None of these

32. Approximately what is the total number of literate people in Maharashtra and Karnataka together?

- 1) 6 lakh 2) 3 lakh
 3) 3.5 lakh 4) 6.5 lakh
 5) 4.5 lakh

33. What was the approximate percentage of women of Andhra Pradesh to the women of Tamil Nadu?

- 1) 120% 2) 95%
 3) 90% 4) 110%
 5) 85%

34. If in the year 1993 there was an increase of 10% population of U.P. and 12% of Bihar compared to the previous year, then what was the ratio of the population of UP to Bihar?

- 1) 48 : 55 2) 40 : 50
 3) 55 : 48 4) 50 : 40
 5) None of these

35. In Tamil Nadu if 70% of the females are literate and 75% of the males are literate, what is the total number of illiterates in the State?

- 1) 81,000 2) 75,000
 3) 71,000 4) 85,000
 5) None of these

36. Approximately what will be the percentage of total male in U.P., Maharashtra & Kerala of the total population of the given States?

- 1) 28% 2) 25%
 3) 18% 4) 30%
 5) 20%

37. What is the ratio of the number of females in Tamil Nadu to the number of females in Kerala?

- 1) 1 : 2 2) 2 : 3
 3) 1 : 1 4) 2 : 1
 5) None of these

38. What should come in place of question mark (?) in the following equation?

$$8\sqrt{?} + 14 \times 3 + 9 = 21$$

- 1) 196 2) 64
 3) 49 4) 7
 5) None of these

39. Four of the following five parts numbered (1), (2), (3), (4) and (5) in the following equation are exactly equal. Which part is not equal to the other four? The number of that part is the answer.

- 1) $(X - Y)^2 + 2XY$ 2) $(X - Y)(X + Y)$
 3) $(X + Y)^2 - 2XY$ 4) $(9X - Y)(X + Y) + 2Y^2$
 5) $(X + Y)(X + 2Y) - Y^2 - 3XY$

40. Sunil left for city 'x' from city 'y' at 5.50 a.m. He travelled at the speed of 80 km/hr for 2 hours 15 minutes. After that the speed was reduced to 60 km/hr. If the distance between the two cities is 350 kms, at what time did Sunil reach the city 'y'?

- 1) 9.50 a.m. 2) 10.35 a.m.
 3) 9.55 a.m. 4) 10.05 a.m.
 5) None of these

41. Rajan invested an amount of Rs. 8,000 in a fixed deposit scheme for 2 years at compound interest rate 5 p.c. p.a. How much amount will Rajan get on maturity of the fixed deposit?

- 1) Rs. 8,600 2) Rs. 8,840
 3) Rs. 8,800 4) Rs. 8,620
 5) None of these

42. How many different letter arrangements can be made from the letters of the word EXTRA in such a way that the vowels are always together?

- 1) 148 2) 124
 3) 128 4) 112
 5) None of these

43. Two trains A and B of equal lengths of 200 metres each running in opposite direction cross each other in 16 seconds. What is the speed of train A?

- 1) 40 kms/hr 2) Data inadequate
 3) 90 kms/hr 4) 80 kms/hr
 5) None of these

44. A and B started a partnership business investing some amount in the ratio of 3:5. C joined them after six months with an amount equal to that of B. Profit at the end of one year should be distributed in what proportion among A, B and C?

- 1) 3 : 5 : 2 2) Data inadequate
 3) 3 : 6 : 5 4) 6 : 10 : 5
 5) None of these

45. What approximate value will come in place of question mark (?) in the following equation?

$$21.0091 - 6.085 + 13.24 = (3.5 + ?) \times 2$$

- 1) 24.5 2) 15.5
 3) 20.5 4) 6.5
 5) 10.5

46. What should come in place of both the question marks (?) in the following equation?

$$\frac{?}{\sqrt{128}} = \frac{\sqrt{162}}{?}$$

- 1) 196 2) 12
 3) 14 4) 144
 5) None of these

Directions (Q. 47 - 50): Study the following table carefully to answer the questions given below:

Marks obtained by seven students in five subjects out of 50

Student	Maths	Sci.	Eng.	His.	Geo.
A	40	35	32	38	35
B	47	42	30	39	28
C	38	40	40	42	46
D	45	36	28	32	42
E	28	26	36	40	38
F	25	28	22	35	30
G	34	35	42	41	39

47. What is the difference between the percentage of marks obtained by the student getting the highest total marks and the student getting the lowest total marks?

- 1) 26.4 2) 28.4
 3) 66.6 4) 56.6
 5) None of these

48. Marks obtained by student A in English is more/less by what percent than the marks obtained by G in Geography?

- 1) 8 2) 16
 3) 14 4) 7
 5) None of these

49. For which two subjects the difference between average of the marks obtained by all the seven students is the maximum?

- 1) Maths - History 2) English - History
 3) Maths - English
 4) History - Science
 5) Geography - English

50. Marks obtained by student D in Science is what percentage of total marks obtained by student F in Maths and History together?

- 1) 60 2) 166
 3) 70 4) 144
 5) None of these

TEST OF REASONING

1. In a code language each of the vowels i.e., a, e, i, o, u is substituted by the letter which immediately follows the vowel in the English alphabet, and every other letter is substituted by the letter which immediately precedes that letter. How can the word "EDUCATION" be rewritten in that code language?

- 1) FCVBBSJPM 2) FCTBBUJNO
 3) FETDBSJPO 4) FCVBZSJNO
 5) None of these

2. If all the vowels i.e., a, e, i, o and u are removed from the English alphabet, which letter will be 7th to the right of the 11th letter counting from your right?

- ABCDEFIGHJKLMNOPQRSTUVWXYZ
 1) H 2) W
 3) F 4) X
 5) None of these

Directions (Q. 3 - 5): Read the following information and answer the questions that follow:

A. In a concert, a musician had sung six classical "Raagas" Viz. Bhairavi, Kedar, Shivranjani, Todi, Durbari, and Malkauns.

B. He sung as many Raagas between Todi and Kedar as between Kedar and Bhairavi.

C. Malkauns was not sung after Kedar.

D. Bhairavi was sung immediately before Durbari.

E. Shivranjani was sung immediately after Kedar.

F. Todi was sung immediately before Malkauns.

3. Which Raaga was sung the last?

- 1) Cannot be determined
 2) Malkauns 3) Durbari
 4) Bhairavi 5) None of these

4. Which Raaga was sung immediately after Malkauns?

- 1) Bhairavi 2) Shivranjani
 3) Durbari 4) Kedar
 5) None of these

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24. The developing countries are not ready to accept development in the field of medicines only.
25. Till this century, technologies did help in creating a better and safer world.
26. Four of the following five groups of English letters are alike in a certain way while one is different. Find the one which is different.
- 1) FCA 2) JLO
3) WUR 4) EDG
5) PNK
27. How many pairs of letters are there in the word DEPENDENT, each of which has one letter between them in the word as well as in the English alphabet?
- 1) Two 2) Nil
3) One 4) Three
5) None of these
28. Which would be MIDDLE digit of the number that comes in the MIDDLE after reversing the digits of each of the following 3-digit numbers and arranging them in the ASCENDING order?
- 503 948 692 837 461
- 1) 9 2) 4
3) 6 4) 0
5) 3
29. Four of the following five analogues based on English letters are alike in a certain way and so form a group. Which is the one that does not belong to that group?
- 1) ADHK : LORU 2) CAGE : SURT
3) KILN : GEGI 4) KIDB : ROLI
5) ECMO : SQSU
30. Which pair of letters has the same relationship between them with respect to their position in the English alphabet as the pair HE has between them in the word BROTHER?
- 1) TH 2) OT
3) RO 4) BR
5) ER
- Directions (Q. 31-35):** These questions are based on code language which utilizes letters in the English alphabet. In each question, there is a word written in capital letter, with one letter underlined. For each letter in that word, there is a code written in small letters. That code is denoted by 1, 2, 3, 4 and 5 not in the same order. You have to find out the exact code for the underlined letter in the word. The number of that code is the answer. Please note that the same letter appearing in other word(s) may be coded differently.
31. MAGIC
- 1) ik 2) eg
3) oq 4) km
5) ce
32. QUITE
- 1) su 2) pr
3) df 4) hj
5) tv
33. DRIVE
- 1) h 2) w
3) d 4) s
5) e
34. PRISM
- 1) l 2) o
3) q 4) r
5) h
35. BEAST
- 1) v 2) d
3) h 4) w
5) e
36. Four of the following five pairs have similar relationship between their elements as between AFFECTION and 27764TOIN and so form a group. Which one does not belong to that group?
- 1) BEAMING : 362MNIG
2) HEADACHE : 9624AHCE
3) DEAREST : 562RSET
4) DECEIVED : 5646IEVD
5) DECEMBER : 5646MEBR
37. Four of the following five groups of letters are alike in some way while one is different. Find out which one is different.
- 1) JNOLM 2) DHIFG
3) SVWTU 4) MQROP
5) PTURS
38. If the 1st, 5th, 16th, 19th and 20th letters of the English alphabet are rearranged to form one meaningful English word taking each letter only once, what will be the middle letter of that word? If more than one such word are formed, your answer should be M and if no such word can be formed, your answer would be X.
- 1) E 2) S
3) X 4) T
5) M
39. In a certain code "DISARMAMENT" is written as "RESIDMINEMA". How is "PSYCHOMETRY" written in that code?

- 1) HCYSPYRTEMO
- 2) YSPOHCYRTEM
- 3) HCYSPOYRTEM
- 4) HCSYPOYRTEM
- 5) None of these

40. 2 4 5 9 3 5 8 7 6 5 2 1 5 0 5 0 3 5 0 3

In the above sequence in some cases, the sum of the two digits which immediately precedes the digit '5' exceeds the sum of the two digits which immediately follow that digit. How many such 5's are there?

- 1) 5 2) 2
- 3) 3 4) 4
- 5) None of these

Directions (Q. 41 - 45) : Each of the question below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements. Give answer

- 1) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
- 2) If the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
- 3) If the data either in statement I alone or in statement II alone are sufficient to answer the question.
- 4) If the data even in both statements I and II together are not sufficient to answer the question.
- 5) If the data in both statements I and II together are necessary to answer the question.

41. How much money was spent on the prizes for the 'X' competition?

- I. The first prize was Rs. 1,000. Besides this, there were some prizes ranging from Rs. 250 to Rs. 500.
- II. Besides the first prize of Rs. 1,000, there was one prize each for second and the third position. The amount for the second prize was double that of third prize, which was Rs. 250.

42. When is the next bus scheduled for Sangli from Dehu?

- I. Every 30 minutes, a bus is scheduled for Sangli from Dehu. The return bus leaves Sangli for Dehu after every 45

minutes.

II. It is 4.45 p.m. now. 15 minutes ago one bus has left for Sangli as per schedule whereas the bus from Sangli has arrived about 30 minutes ago.

43. Among 4 friends P, Q, R and S, who has scored highest runs in the cricket match?

- I. P took more wickets than S but scored less runs than 'R'.
- II. Q scored more runs than P but took less wickets than 'S' and 'R'.

44. City Naroda is in which direction from Theur?

- I. City Vite is to the East of Theur, whereas Rahuri and Devgad are to the North and South of Theur respectively. Naroda is exactly between Vite and Devgad.
- II. City Sakur is to the West of Rahuri and is exactly to North West of Theur. The straight road from Sakur to Naroda goes via Theur and Theur is at equidistance from Naroda and Sakur.

45. How many candidates were shortlisted for interview after the written test?

- I. 25% out of the 480 candidates passed in the written test held for filling 15 vacancies.
- II. The number of candidates to be shortlisted was exactly 3 times the number of vacancies. Last year the no. of vacancies were three-fifth of this year vacancies.

Directions (Q. 46 - 50): In the following questions the symbols @, @ =, © and © are used with the following meaning:

- P @ Q means P is greater than Q.
 P @ Q means P is either greater than or equal to Q.
 P = Q means P is equal to Q.
 P © Q means P is smaller than Q.
 P © Q means P is either smaller than or equal to Q.

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true. Give answer.

- 1) if only conclusion I is true.
- 2) if only conclusion II is true.
- 3) if either conclusion I or II is true.
- 4) if neither conclusion I nor II is true
- 5) if both conclusions I and II are true

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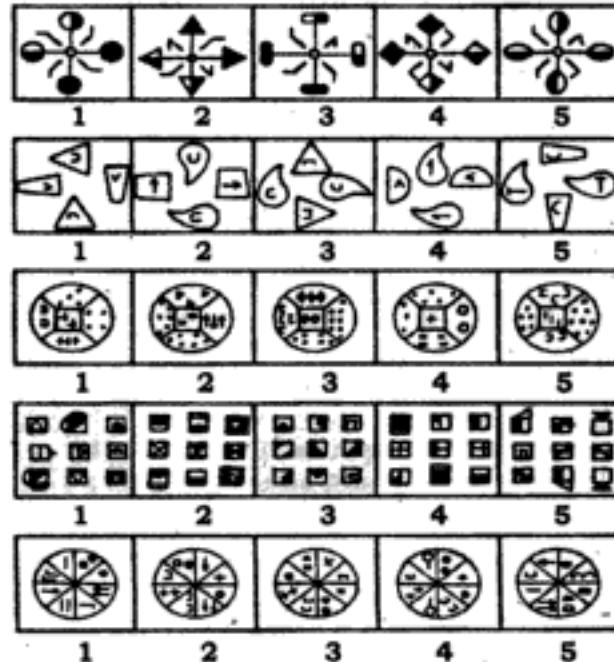
- for the payment of bills.
- 58. Statement:** The management of XYZ Pvt. Ltd. asked the workers' union to call off strike immediately; otherwise the management would be forced to close down the factory.
- Assumptions:** I. No alternative other than closing down the factory is left for the management of XYZ Pvt. Ltd.
- II. Such threat may have some effect on the workers' union.
- 59. Statement:** Market trends are changing continuously and with increasing competitiveness, the consumers' demands with respect to the prices and quality are gradually increasing.
- 60. Statement:** Assumptions: I. The consumers did not care for the prices and quality earlier.
- II. Market competitiveness is not favourable for the consumers.
- When there is no danger from external or internal forces in any nation and there prevails normal conditions, then there is possibility of accelerated economic growth.

Directions (Q. 61 - 65): In each question below, two Problem Figures, followed by five answer figures numbered (1), (2), (3), (4) and (5) are given. The two problem figures have some common characteristics/features. You have to find out one figure out of the five 'answer figures which has the same features/characteristics. The number of that figure is the answer.

Problem Figures

- 61.
- 62.
- 63.
- 64.
- 65.

Answer Figures



Directions (Q. 66 - 70): In each of the following problems, a related pair of figures is given followed by five numbered pairs of figures. Select a pair that has a relationship similar to that in the original pair.

	Problems Figures		Answer Figures				
66.			1	2	3	4	5
67.			1	2	3	4	5
68.			1	2	3	4	5
69.			1	2	3	4	5
70.			1	2	3	4	5

Directions (Q. 71 - 75) : Each of the following questions consists of six figures, the first of which is unnumbered and marks the beginning of the series continued in the successive figures numbered from 1 to 5. However, the series will be established only if the positions of two of the numbered figures are interchanged. The number of the first of the two figures is the answer. If no figure need to be interchanged, then the answer is 5.

71.					
72.					
73.					
74.					
75.					

ANSWERS

General Awareness

1. 4	2. 4	3. 1	4. 2	5. 3	6. 2	7. 5	8. 1	9. 1	10. 3
11. 4	12. 5	13. 4	14. 2	15. 5	16. 2	17. 1	18. 2	19. 5	20. 1
21. 4	22. 3	23. 3	24. 3	25. 1	26. 4	27. 3	28. 4	29. 3	30. 1
31. 3	32. 2	33. 5	34. 3	35. 3	36. 4	37. 2	38. 2	39. 2	40. 5
41. 5	42. 4	43. 1	44. 4	45. 3	46. 3	47. 2	48. 3	49. 4	50. 4

Test of English Language

1. 1	2. 2	3. 3	4. 4	5. 4	6. 3	7. 2	8. 4	9. 3	10. 3
11. 1	12. 5	13. 3	14. 1	15. 2	16. 3	17. 4	18. 3	19. 5	20. 2
21. 4	22. 3	23. 3	24. 2	25. 1	26. 2	27. 3	28. 4	29. 3	30. 1
31. 4	32. 3	33. 4	34. 5	35. 1	36. 3	37. 4	38. 1	39. 5	40. 4
41. 5	42. 1	43. 2	44. 2	45. 4	46. 4	47. 2	48. 3	49. 2	50. 3

Quantitative Aptitude

1. 1; Quicker Method:

$$\begin{aligned}\text{Reqd percent} &= \frac{150\% \text{ of the no. of qualified students of A}}{120\% \text{ of the no. of students appeared from A}} \\ &= \frac{150}{120} \times 70\% = \frac{5}{4} \times 70\% = 87.5\%\end{aligned}$$

2. 4; $A = 2B$

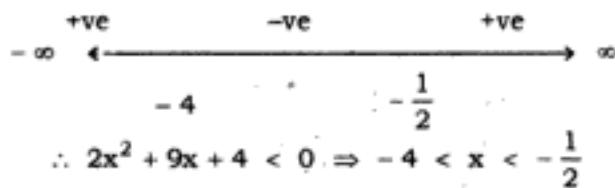
$$\text{Now, } A \times B = A \times \frac{A}{2} = \frac{A^2}{2} = \frac{2}{25} \text{ (given)} \quad \text{or, } A^2 = \frac{2 \times 2}{25} = \left(\frac{2}{5}\right)^2 \quad A = \frac{2}{5}$$

3. 2.

4. 3; The corresponding equation of the given expression is $2x^2 + 9x + 4 = 0$

$$\therefore x = \frac{-9 \pm \sqrt{81 - 4 \times 2 \times 4}}{2 \times 2} = \frac{-9 \pm (\sqrt{49} =) 7}{4} = -4, -\frac{1}{2}$$

So, the sign scheme of the expression $2x^2 + 9x + 4 = 0$ is as follows :



5. 1; Total no. of balls = $4 + 3 + 5 = 12$

$$n(S) = {}^{12}C_2 = \frac{12 \times 11}{2} = 66$$

$$n(E) = {}^4C_2 + {}^3C_2 + {}^5C_2 = \frac{4 \times 3}{2} + \frac{3 \times 2}{2} + \frac{5 \times 4}{2} = 6 + 3 + 10 = 19$$

$$\therefore \text{Reqd probability, } P(E) = \frac{n(E)}{n(S)} = \frac{19}{66}$$

6. 5; Let the two-digit number be xy , i.e. $10x + y$; then $y = 4x$ and $x + y = 10$
or, $x + 4x = 5x = 10 \therefore x = 2$ and $y = 4 \times 2 = 8$

$$\therefore \text{The reqd no.} = 10x + y = 10 \times 2 + 8 = 28$$

7. 1; 1 = 50 while other parts are 100. 8. 2

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passing only 82 students, this no. should be merely higher than 80 (it may be 85 or 92 or even all the 100 students). So, as regards the context, the correct answer is either 10 and above or, 0 and above.

For a moment, considering option (1) we see that when the pass marks is 19, then the no. of qualified students is 82 only when all the $(82 - 67 =) 15$ students have scored 19 marks, which cannot be certainly said. Hence, we conclude that the answer is (5).

24. 3; Reqd difference = $31 - 27 = 4$

25. 4.

26. 4; We see that from any two statements the reqd. ratio can be found out. So, while considering any two statements, the third one is unnecessary.

27. 1.

28. 3; Clearly, A and C imply the same thing and the area can be known by either A and B or B and C.

When we take the statements A and B then C is superfluous. When we take B and C then A is superfluous.

29. 5; We see that from A and B or from B and C, the reqd. amount can be known.

30. 1; $A \Rightarrow R > P > Q$ $B \Rightarrow R > M$ $C \Rightarrow R > M > P$

From A and B or from A and C, we find that R is the tallest among M, P, Q and R.

$$\text{31. 2; Reqd ratio} = \frac{\frac{2}{3} \text{ of } 9\% \text{ of } 25 \text{ lakh}}{\frac{1}{5} \text{ of } 20\% \text{ of } 25 \text{ lakh}} = \frac{\frac{2}{3} \times 9}{\frac{1}{5} \times 20} = \frac{2 \times 3}{4} = 3 : 2$$

$$\text{32. 5; No. of literate people in Maharashtra} = \frac{5}{(5+1=)6} \text{ of } 11\% \text{ of } 25 \text{ lakh}$$

$$= \left(\frac{55}{6} \approx \right) 9\% \text{ (as } 6 \times 9 = 54 \text{) of } 25 \text{ lakh and that in }$$

$$\text{Karnataka} = \left[\frac{3}{(3+2=)5} \text{ of } 15\% = 3 \times 3 = \right] 9\% \text{ of } 25 \text{ lakh}$$

$$\therefore \text{Reqd total no.} = (9 + 9 =) 18\% \text{ of } 25 \text{ lakh}$$

$$= \frac{18}{100} \times 2500000 = 4.5 \text{ lakh}$$

$$\text{33. 4; Reqd. percentage} = \frac{\frac{3}{5} \text{ of } 9\% \text{ of } 25 \text{ lakh}}{\frac{2}{5} \text{ of } 12\% \text{ of } 25 \text{ lakh}} \times 100$$

$$= \frac{3 \times 9}{2 \times 12} \times 100 = \frac{9 \times 100}{8} = 9 \times 12.5 \approx 110 (\%)$$

$$\text{34. 5; Reqd ratio} = \frac{110\% \text{ of } 25\% \text{ of } 25 \text{ lakh}}{112\% \text{ of } 20\% \text{ of } 25 \text{ lakh}} = \frac{110 \times 25}{112 \times 20} = \frac{275}{224}$$

35. 1; The total no. of illiterates in Tamil Nadu = $(100 - 70 =) 30\%$ of females + $(100 - 75 =) 25\%$ of males in the state

$$= \left(\frac{30}{100} \times \frac{2}{5} \times \frac{25}{100} \times \frac{3}{5} \right) \text{ of } 12\% \text{ of } 25 \text{ lakh}$$

$$= (6 \times 2 + 5 \times 3 =) \frac{27}{100} \times \frac{12}{100} \times 2500000 = 27 \times 12 \times 250 = 81000$$

36. 2.

$$37. 5; \text{Reqd ratio} = \frac{\frac{2}{5} \text{ of } 12\% \text{ of } 25 \text{ lakh}}{\frac{4}{7} \text{ of } 8\% \text{ of } 25 \text{ lakh}} = \frac{\frac{2}{5} \times 12}{\frac{4}{7} \times 8} = \frac{2 \times 12 \times 7}{5 \times 4 \times 8} = \frac{3 \times 7}{5 \times 4} = \frac{21}{20}$$

$$38. 3; \frac{4\sqrt{2}}{7} \times 3 = 21 - 9 = 12 \text{ or } 4\sqrt{?} = 4 \times 7, ? = (7)^2 = 49$$

39. 2; 2) $x^2 - y^2$ while other parts are $x^2 + y^2$.

40. 5.

$$41. 5; \text{Reqd amount} = 8000 \left(1 + \frac{5}{100}\right)^2 = 8000 \times \frac{441}{400} = 20 \times 441 = 8820$$

42. 5; Considering the two vowels E and A as one letter, the total no. of letters in the word 'EXTRA' = 4 which can be arranged in 4P_4 , i.e. 4! ways and the two vowels can be arranged among themselves in 2! ways.

$$\therefore \text{Reqd no.} = 4! \times 2! = 4 \times 3 \times 2 \times 1 \times 2 \times 1 = 48$$

$$43. 2; \text{Speed of A} + \text{Speed of B} = \frac{200 + 200}{16} \text{ mps}$$

As the speed of B is unknown so the speed of A cannot be determined.

$$44. 4; \text{Reqd proportion} = 3 \times 12 : 5 \times 12 : 5 \times (12 - 6 =) 6 = 6 : 10 : 5$$

$$45. 5; 3.5 + ? = \frac{(21 - 6 + 13 =) 28}{2} = 14$$

$$\therefore ? = 14 - 3.5 = 10.5$$

$$46. 4; (?)^2 = \sqrt{162} \times \sqrt{128}$$

$$= \sqrt{2 \times 81 (= 9^2)} \times \sqrt{2 \times 64 (= 8^2)} = (2 \times 9 \times 8)^2$$

$$\therefore ? = 2 \times 9 \times 8 = 144$$

47. 1. 48. 3.

49. 2; Total marks obtained by all the students in Maths = $40 + 47 + 38 + 45 + 28 + 25 + 34 = 257$
 Similarly, in Science $\rightarrow 242$, English $\rightarrow 230$, History $\rightarrow 267$, Geography $\rightarrow 258$.
 Clearly, the difference between the total marks (and hence that of average marks) of the two - English and History - is the maximum.

$$50. 1; 36 = x\% \text{ of } (25 + 35 =) 60 \text{ or, } x = \frac{36 \times 100}{60} = 60$$

Test of Reasoning

1. 1; F C V B B S J P M

2. 2; After removing the vowels in English alphabet, B C D F G H J K L M N P Q R S T V W X Y Z
 The required letter will be $(11 - 7 =) 4$ th from the right i.e., 'W'.

3. 3. 4. 4. 5. 3.

6. 4; V I S I O N A R Y



7. 5; Ancestors and Offsprings are antonyms of each other.

8. 1; A (+) B (-) C (+)

|

D

Since the sex of D is not known. Hence D may be niece or nephew.

(9 - 15):

	A (iii)	B (ii)	C	D (i)
9	✓		✓	✓
10	✓	✓	✓	✓
11	✓	✓	✓	✓
12	✓	-	✓	-
13	(✓)	✓	✓	✓
14	(✓)	✓	✓	✓
15			✗	

A + B + C (i) → option 1

A + (ii) + C + D → option 2

(iii) + B + C + D → option 3

A + B + C + D → option 4

any other combination → option 5

9. 5; The duration of experience is not given.
10. 4; $1.03.99 - 27.05.71 = 4.09.27$ i.e. satisfying 'C'.
11. 4. 12. 5. 13. 3. 14. 3.
15. 5; $1.03.99 - 27.02.71 = 2.00.28$. Since 'C' is a necessary condition, we proceed no further after being sure of its absence.
16. 3; The combination of all the statements gives all flowers are trees (A) → conversion → Some trees are flowers (I) (i)
Now, the other possibility 'Some trees are not flowers' may be true (ii) or may not be true (iii).
Combining (i) and (ii), II is true but I is not. Combining (i) and (iii), I is true but II is not.
Hence, either I or II follows.
17. 2.
18. 4; 'Some tigers are rabbits' on conversion gives 'Some rabbits are tigers'. Hence, I does not follow. 'No rabbit is a jackal' on conversion gives 'No jackals are rabbits'. Hence, II does not follow.
19. 1. 20. 4. 21. 4.
22. 2; The tenor of the passage suggests so. But it is not explicitly stated. It is possible that the author may be concerned only with denouncing technology, not with providing an alternative.
23. 2.
24. 3; It is nowhere mentioned about the categorisation of the countries.
25. 3.
26. 1; In all others there is a gap of one letter between the first two letters and of two letters between the last two:
27. 3; D E P E N D E N T
28. 4; After reversing the digits, 305, 849, 296, 738, 164. Arranging it in ascending order, we get 164, 296, 305, 738, 849
29. 2. []
30. 3; There is a gap of two letters between E and H in the pair HE. Similarly in RO.
31. 1; Each single letter is expressed as two letters, both at a gap of one each. Thus A becomes ee and so on.
32. 2; Each single letter is expressed as two letters, one behind and the other ahead of the given letter. Thus A becomes zb, B becomes ac and so on.
33. 3; D R I V E
 ↓ ↓+1 ↓-1 ↓+1 ↓
 d s h w e
34. 4; All the letters of the word are coded as one letter behind.
35. 1; All the letters of the word are coded as three letters ahead.

36. 2.

37. 3; In all others

Third letter = first letter + 2 i.e. R = P + 2 and so on.

38. 5; The required letters are A, E, P, S, T. From which PASTE, SPATE and TAPES can be made.

39. 3; The middle letter remains the same and all letters in the first and the second half get reversed on their respective sides.

40. 2; $7 + 6 > 2 + 1$, $5 + 0 > 0 + 3$. In rest of the cases either it is opposite of this or equal.

41. 2; From I, how many prizes besides the first is not known.

From II, $1000 + 500 + 250 = \text{Rs. } 1750$

42. 5; From I, we get the rule, and

From II, with the help of the rule which we get from I, we can find the next scheduled time i.e. $4.45 + .15 = 5 \text{ pm.}$

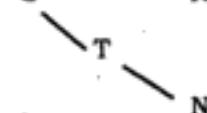
43. 4.

44. 3; From I,



i.e. Naroda is South east from Theur.

From II,



i.e. Naroda is South east from Theur

45. 1; $\frac{480 \times 25}{100} = 120$ candidate passed in the written test.

46. 2. 47. 1.

48. 4; $Z > M \dots$ (i), $M < L \dots$ (ii), $L > A \dots$ (iii)

From (ii) and (iii) no conclusions can be drawn. Hence, I is not true.

Similarly, from (i) and (ii) no conclusion can be drawn. Hence, II is not true.

49. 3. 50. 4.

(51 - 55):

For convenience, we plot the movement of each word in each step by the numbers assigned to them in the input; gale - 1, pa-2, tu-3, is-4, wind-5, law-6

Input:	1	2	3	4	5	6
Step I:	4	6	1	2	3	5
Step II:	4	6	5	3	2	1
Step III:	3	1	4	6	5	2
Step IV:	3	1	2	5	6	4
Step V:	5	4	3	1	2	6
Step VI:	5	4	6	2	1	3
Step VII:	2	3	5	4	6	1
Step VIII:	2	3	1	6	4	5

There are two movements i.e. input to step I and step I to step II, which are repeated thereafter.

51. 5. 52. 4.

53. 3; Step III: Low fat say by gain over
3 1 4 6 5 2Input: 1 2 3 4 5 6
fat over low say gain by

54. 1

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- 24.** Recently, Indian government has started a bus-service between India and Pakistan, which of the following pairs of cities are connected by this bus service?
 1) Lahore-Delhi 2) Islamabad-Delhi
 3) Islamabad-Amritsar
 4) Islamabad-Lahore-Delhi
 5) Amritsar-Lahore
- 25.** Gegong Apang who was recently in news, has resigned from Chief Ministership of which of the following states?
 1) Tripura 2) Meghalaya
 3) Mizoram 4) Nagaland
 5) Arunachal Pradesh
- 26.** The book 'Embodiment : Essay on Gender and Identity' is authored by which of the following persons?
 1) Maneka Gandhi 2) Meenakshi Thapar
 3) Ashok Desai
 4) Sunderlal Bahuguna
 5) None of these
- 27.** P.M. Sayeed the Deputy Speaker of the present Lok Sabha, belongs to which of the following political parties?
 1) All India Anna Dravid Munnetra Kazhagam
 2) Bharatiya Janata Party
 3) Communist Party of India (Marxist group)
 4) Telugu Desham
 5) Indian National Congress
- 28.** Ashok Shandilya is associated with which of the following games?
 1) Lawn Tennis 2) Badminton
 3) Billiards 4) Shooting
 5) Table Tennis
- 29.** Which of the following banks has recently launched 'Kisan Credit Card'?
 1) Allahabad Bank 2) Bank of Baroda
 3) State Bank of India
 4) Punjab National Bank
 5) None of these
- 30.** How many medals were won by Indian team in 13th Asian Games '98 concluded at Bangkok?
 1) 27 2) 41
 3) 30 4) 35
 5) None of these
- 31.** Shri Lakshman Krishnarao Pandit who was recently awarded with Sangeet Natak Academy Award, is associated with which of the following forms of performing arts?
 1) Mridangam-Playing
 2) Sitar-Playing
 3) Carnatic Classical Music
 4) Veena Playing
 5) Hindustani Classical Music
- 32.** A new radar system 'Raytheon' has started working at which of the following airports since January 1999?
 1) Calcutta 2) Delhi
 3) Mumbai 4) Chennai
 5) Bangalore
- 33.** Grammy Award Winner Pandit Vishwa Mohan Bhatt has created a new raga as a tribute to the Late Odissi dancer Protima Gauri Bedi. What is the name of that new raga?
 1) Gaurima 2) Madhuvanti
 3) Protima 4) Garima
 5) Shivranjani
- 34.** Which of the following state governments has decided to celebrate a year long programme called 'Kharavela Mahotsava'?
 1) Kerala 2) Orissa
 3) Andhra Pradesh 4) Tamil Nadu
 5) Karnataka
- 35.** What is the estimated industrial output growth projected by the "Centre For Monitoring Indian Economy" for the Financial Year 1998-99?
 1) 2.5% 2) 4.5%
 3) 4.0 4) 3.0
 5) None of these
- 36.** Michael Jordan who took retirement in the month of January 1999, was associated with which of the following sports?
 1) Boxing 2) Soccer
 3) Volley Ball 4) Basket Ball
 5) Base Ball
- 37.** Which of the following statement(s) is/are true about the recently announced PIO (Persons of Indian Origin) Scheme

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- 3) C only 4) A and B only 1) IRS-P3 2) IRS-P2
 5) B and C only 3) IRS-3B 4) IRS-P4
 5) None of these
- 48. Which of the following bodies/ organisations is celebrating its 50th Anniversary in the year 1999?**
- 1) Commonwealth 2) UNO
 3) WHO 4) NATO
 5) None of these
- 49. Which of the following satellites will be launched specifically for the purpose of Oceanographic Research?**
- 1) Maharashtra 2) Delhi
 3) West Bengal 4) Tamil Nadu
 5) None of these
- 50. Which of the following teams has won the National Squash Championship held recently?**

ENGLISH

Directions (1-15): Read the following passage carefully and answer the questions given below it. Certain words / phrases are printed in **bold** to help you to locate them while answering some of the questions.

In the second week of August 1998, just a few days after the incidents of bombing the US embassies in Nairobi and Dar-es-Salaam, a high powered, brain-storming session was held near Washington D.C., to discuss various aspects of terrorism. The meeting was attended by ten of America's leading experts in various fields such as germ and chemical warfare, public health, disease control and also by the doctors and the law enforcing officers. Being asked to describe the horror of possible bio attack, one of the experts narrated the following *gloomy* scenario.

A culprit in a crowded business centre or in a busy shopping mall of a town empties a test tube containing some fluid, which in turn creates an unseen cloud of germ of a dreaded disease like anthrax capable of inflicting a horrible death within 5 days on any one who inhales it. At first 500, or so victims feel that they have mild influenza which may recede after a day or two. Then the symptoms return again and their lungs start filling with fluid. They rush to local hospitals for treatment, but the panic stricken people may find that the medicare services run quickly out of drugs due to excessive demand. But no one would be able to realise that a terrorist attack has occurred. One cannot deny the possibility that the germ involved would be of contagious variety capable of causing an epidemic. The meeting concluded that **such attacks** apart from causing immediate human tragedy, would have

dire long term effects on political and social fabric of a country by way of ending people's trust on the competence of the government.

The experts also said that the bombs used in Kenya and Tanzania were of the old fashion variety and involved quantities of high explosives, but new terrorism will prove to be more deadly and probably more elusive than hijacking an aeroplane or a gelignite of previous decades. According to Shri Bruce Hoffman, an American specialist on political violence, old terrorism generally had a specific manifesto—to overthrow a colonial power or the capitalist system and so on. These terrorists were not shy about planting a bomb or hijacking an aircraft and they set some limit to their brutality. Killing so many innocent people might turn their natural supporters off. Political terrorists want a lot of people watching but not a lot of people dead. "Old terrorism sought to change the world while the new sort is often practised by those who believe that the world has gone beyond redemption", he added.

Shri Hoffman says, "New terrorism has no long term agenda but is ruthless in its short term intentions. It is often just a **cacophonous** cry of protest or an outburst of religious **intolerance** or a protest against the West in general and the US in particular. Its **perpetrators** may be religious fanatics or diehard opponent of a government and see no reason to show restraint. They are simply intent on **inflicting** the maximum amount of pain on the victim".

- According to the author of the passage, the root cause of terrorism is

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Directions (13-15) : Choose the word which is most nearly the SAME in meaning as the word printed in **bold** as used in the passage.

13. elusive

- | | |
|----------------|----------------|
| 1) baffling | 2) harmful |
| 3) fatal | 4) obstructing |
| 5) destructive | |

14. inflicting

- | | |
|----------------|---------------|
| 1) soothing | 2) reflecting |
| 3) elevating | 4) imposing |
| 5) alleviating | |

15. perpetrators

- | | |
|-----------------|--------------|
| 1) manoeuvrers | 2) leaders |
| 3) followers | 4) opponents |
| 5) sympathisers | |

Directions (16-20) : In each question below a sentence is given with **four words (or group of words)** printed in **bold** which are numbered as (1), (2), (3) & (4). One of them may be grammatically or structurally wrong in the context of the sentence. The number of that word is the answer. If there is no wrong word or group of words, your answer will be (5) i.e. "No error".

16. The most **popular** (1) method **adopted** (2) by an organisation to **communicate** (3) job vacancies to the public is through **advertisement** (4). No error (5)

17. The **roll** (1) of the institute is to provide technical support to other institutions and to constantly **monitor** (2) their **facilities** (3) and **performance** (4). No error. (5)

18. The act of **extending** (1) **preferential** (2) treatment to service providers was **high** (3) **appreciated** (4). No error (5)

19. The **significant** (1) **future** (2) is that none of the ancient Indian scientists **claimed** (3) **originality** (4) of their theories. No Error (5)

20. The **competitive** (1) edge for **survival** (2) lays (3) in the **effective** (4) use of information technology. No error (5)

Directions (21-30): Which of the following phrases (1), (2), (3) and (4) given below each sentence should replace the phrase printed in **italics** to make the sentence grammatically correct? If the sentence is correct as it is, mark (5) i.e. No correction required as the answer.

- 21.** **What did happen there in the first place is not a matter of our concern.**
- What should have happened
 - What happened
 - What would have happened
 - What happens
 - No correction required
- 22.** **This exploitation of the helpless tribals needs to be condemned**
- need to condemnation
 - needs to be condemned
 - needs condemnation
 - need to be condemned
 - No correction required
- 23.** **How religious intolerance can blight social peace and harmony can be gauged from events take place around the globe.**
- took place around
 - taken place over
 - taking place around
 - taken place in
 - No correction required
- 24.** **If Indian people are united, this nation can become a source of strength for the entire world,**
- can become a source with
 - would be a source in
 - can become resurceful for
 - could become a resource of
 - No correction required
- 25.** **The fact finding team which had been to the area found villagers giving information to police:**
- that led to
 - which led to
 - that has been to
 - which had been for
 - No correction required
- 26.** **The speaker highlighted the contribution of women for bringing about social changes.**
- in bringing about
 - for bringing in
 - in bringing of
 - for the brought over
 - No correction required
- 27.** **The local authorities were never bothering to care about the unfortunate happenings.**
- were never bothering to
 - never were bothering to
 - never bothered to

- 4) were never bothered to
5) No correction required
- 28. Such inequalities can be founded enshrined in the constitutions of other countries also.**
- 1) could have founded
 - 2) could be founded 3) can be found
 - 4) could have been founded
 - 5) No correction required
- 29. India's outlook on the world is composing of these various elements.**
- 1) is composed with
 - 2) has been composing at
 - 3) is composed of 4) is composed by
 - 5) No correction required
- 30. All their efforts were direct to promote harmony among various groups of people.**
- 1) were directed to 2) have directed for
 - 3) were directing to 4) were directed at
 - 5) No correction required
- Directions (31-40):** In each of the following sentences there are two blank spaces. Below each sentence there are five pairs of words denoted by numbers (1), (2), (3), (4) and (5). Find out which pair of words can be filled up in the blanks in the sentence in the same sequence to make the sentence meaningfully complete.
- 31. Problems of the country can only be aggravated by ___ and ___ citizens.**
- 1) independent, practical
 - 2) selfish, irresponsible
 - 3) dedicated, patriotic
 - 4) extraordinary, uncompromising
 - 5) careful, unscrupulous
- 32. If you kindly bear ___ me for some time, I shall ___ the whole issue.**
- 1) out, understand 2) at, inform
 - 3) with, clarify 4) for, know
 - 5) on, solve
- 33. The ___ with which he is able to wield the paint brush is really ___**
- 1) majesty, royal
 - 2) sweep, fine
 - 3) energy, unnecessary
 - 4) ease, remarkable
 - 5) practice, good
- 34. People who are ___ can ___ their things in an orderly manner.**
- 1) dependable, accumulate
 - 2) indecisive, do
 - 3) punctual, manage
 - 4) thrifty, perform
 - 5) upright, keep
- 35. Nine members have ___ about the decision, but the tenth one views it ___**
- 1) solution, critically
 - 2) consensus, similarly
 - 3) disagreement, collectively
 - 4) grievance, grudgingly
 - 5) agreement, differently
- 36. Though the hospital is extremely rich, the conditions there are ___**
- 1) appallingly, poor
 - 2) admirably, comfortable
 - 3) extremely, conducive
 - 4) frequently, tolerable 5) equally, rich
- 37. The account of the crime given by the accused was ___ and was ___.**
- 1) false, appreciable
 - 2) complete, imaginary
 - 3) exaggerated, unpardonable
 - 4) dependable, uncognisable
 - 5) fictitious, unreliable
- 38. The WHO has ___ the government for taking prompt ___ action.**
- 1) appreciated, hectic
 - 2) admired, unreasonable
 - 3) criticised, obligatory
 - 4) blamed, ineffective
 - 5) lauded, preventive
- 39. The feeling of the people is not entirely ___ or ___.**
- 1) cohesive, irrational
 - 2) unreasonable, imaginary
 - 3) baseless, unjustified
 - 4) unpardonable, unimaginative
 - 5) sound, unfounded
- 40. Punishment is ___ and ___ a lot of wrong-doings.**
- 1) essential, nullifies
 - 2) an evil, prohibits
 - 3) mandatory, ensures
 - 4) inevitable, encourages
 - 5) a deterrent, prevents

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35% of 1478 + 29% of 3214 = ?

- 1) 1600 2) 1500
3) 1450 4) 1250
5) 1300

5. The ratio between the present ages of P and Q is 5:7 respectively. If the difference between Q's present age and P's age after 6 years is 2, what is the total of P's and Q's present age?

- 1) 56 years 2) 48 years
3) 52 years
4) Cannot be determined
5) None of these

6. Four of the five parts numbered (1), (2), (3), (4) and (5) in the following equation are exactly equal. Which of the parts is not equal to the other four? The number of that part is the answer.

$$732.534 + 412.256 - 544.29 = \text{(1)}$$

$$1256.214 - 355.514 - 300.2 = 246.86 + \text{(2)}$$

$$439.38 - 80.74 = 1415.329 + 532.40 - \text{(3)} \quad \text{(4)}$$

$$1347.229 = 398.14 - 239.3 + 441.75 \quad \text{(5)}$$

7. The length of a rectangular plot is 20 metres more than its breadth. If the cost of fencing the plot @ Rs.26.50 per metre is Rs.5,300/-, what is the length of the plot in metres?

- 1) 40 2) 50 3) 120
4) Data inadequate 5) None of these

8. What approximate value should come in place of the question mark (?) in the following equation?

$$152 \sqrt{?} + 795 = 8226 - 3486$$

- 1) 1225 2) 1025
3) 425 4) 675
5) 985

9. Four of the five parts numbered (1), (2), (3), (4) and (5) in the following equation are exactly equal. Which of the parts is not equal to the other four? The number of that part is the answer

$$(a^2 - b^2) + 4ab = a(a + b) + b(a + b)$$

- (1) (2)

$$= (a^2 - b^2) + 2b(b + a) = (a - b)b +$$

$$\text{(3)} \quad \text{(4)}$$

$$(a + b)2b = (a + b)^2 - 2a(a + b)^2 - 2a \quad \text{(5)}$$

$$(a - b) + a(2a - 2b)$$

10. Naresh's monthly income is 30% more than that of Raghu. Raghu's monthly income is 20% less than that of Vishal. If the difference between the monthly income of Naresh and Vishal is Rs.800/-, what is the monthly income of Raghu?

- 1) Rs.20,000/- 2) Rs.16,000/-
3) Rs.12,000/- 4) Data inadequate
5) None of these

11. When 30 per cent of a number is added to another number the second number increases to its 140 per cent. What is the ratio between the first and the second number?

- 1) 3 : 4 2) 4 : 3 3) 3 : 2
4) Data inadequate 5) None of these

12. Jeevan bought an article with 30 per cent discount on the labelled price. He sold the article with 12 per cent profit on the labelled price. What was his percent profit on the price he bought?

- 1) 40 2) 50 3) 60
4) Data inadequate 5) None of these

13. Two-fifth of one-fourth of three-seventh of a number is 15. What is half of that number?

- 1) 196 2) 94 3) 188 4) 96
5) None of these

14. What would be the maximum value of Q in the following equation?

$$5P9 + 3R7 + 2Q8 = 1114$$

- 1) 7 2) 4 3) 8 4) 5
5) None of these

15. What should come in place of the question mark (?) in the following equation?

$$6\frac{5}{6} \times 5\frac{1}{3} + 17\frac{2}{3} \times 4\frac{1}{2} = ?$$

- 1) 663 2) 112\frac{2}{3}

- 2) $116\frac{1}{3}$ 3) 240

5) None of these

16. Ashok borrowed some money at the rate of 6 p.c.p.a for the first two years, at the rate of 9 p.c.p.a. for the next three years and at the rate of 14 p.c.p.a for the period beyond five years. If he pays a total interest of Rs.11,400/- at the end of nine years, how much money did he borrow?

- 1) Rs.16,000/- 2) Rs.12,000/-
3) Rs.14,000/- 4) Rs.18,000/-
5) None of these

17. What approximate value should come in place of the question mark (?) in the following equation?

$$\frac{5}{7} \text{ of } 1596 + 3015 = ? - 2150$$

- 1) 5800 2) 6300 3) 5300
4) 7200 5) 4800

18. Twenty-four men can complete a work in sixteen days. Thirty-two women can complete the same work in twenty-four days. Sixteen men and sixteen women started working and worked for twelve days. How many more men are to be added to complete the remaining work in 2 days?

- 1) 16 2) 36 3) 24 4) 48
5) None of these

19. The average marks obtained by Suresh in English and History is 55. The average marks obtained by him in English and Science is 65. What is the difference between the marks obtained by him in History and Science?

- 1) 40 2) 20 3) 60
4) Data inadequate 5) None of these

20. The ratio between two numbers is 5:4. If forty per cent of the first number is 12, what is fifty percent of the second number?

- 1) 24 2) 12 3) 18
4) Data inadequate 5) None of these

Directions (21-25): Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide

whether the date provided in the statements are sufficient to answer the question. Read both the statements and

Give answer (1) If the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.

Give answer (2) if the the data in statement II alone are sufficient to answer the question while the data in statement I alone are not sufficient to answer the question.

Give answer (3) if the data either in statement I alone are or in statement II alone are sufficient to answer the question.

Give answer (4) if the data even in both the statements I and II together are not sufficient to answer the question and

Give answer (5) if the data in both the statements I and II together are necessary to answer the question.

21. What is the price of a table?

- I. The total price of 3 chairs and 5 tables is Rs.18,800/-
II. The total price of 6 chairs and 4 tables is Rs.20,800/-

22. What is the difference between the digits of a two digit number?

- I. The sum of the digits of that number is 8.
II. One fifth of that number is 15 less than half of 44.

23. What is the monthly salary of Q?

- I. Q earns Rs.6,000/- more than R who earns Rs.3,000/- less than P.
II. The total monthly salary of P and Q is Rs.27,000/-

24. What is the height of a circular cone?

- I. The area of that cone is equal to the area of a rectangle whose length is 33 cm.
II. The area of the base of that is 154 sq.cm.

25. What was the speed of a running train A?

- I. The relative speed of train A and another train B running in opposite direction is 160 kmph.
II. The train B crosses a signal post in 9 seconds.

Directions (26-30): In each of the following questions a number series is given. After the series,

a number is given followed by (a), (b), (c), (d) and (e). You have to complete the series starting with the number given following the sequence of the given series. Then answer the question given below it.

26. 424 208 100 46

- 888 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (b)?

- 1) 36 2) 108 3) 20 4) 216
5) None of these

27. 4 5 12 39

- 7 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (e)?

- 1) 14.25 2) 32.5 3) 271.5 4) 8
5) None of these

28. 5 294 69 238

- 13 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (e)?

- 1) 302 2) 125 3) 206 4) 246
5) None of these

29. 8 8 12 24

- 36 (a) (b) (c) (d) (e)

Which of the following numbers will come in place of (e)?

- 1) 36 2) 54 3) 108 4) 810
5) None of these

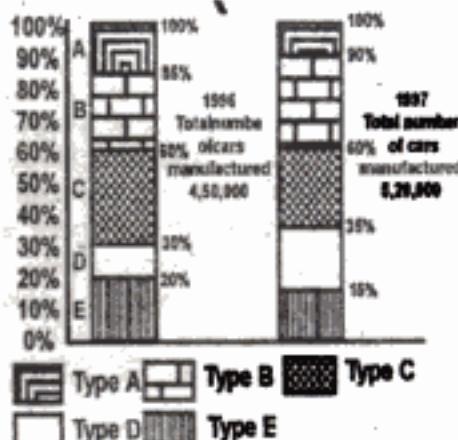
30. 1 9 65 393

- 2 (a) (b) (c) (d) (e)

which of the following numbers will come in place of (c)?

- 1) 731 2) 729 3) 853 4) 490
5) None of these

Directions (31-35): Study the following graph carefully and answer the questions given below it.



31. If the percentage production of B type cars in 1997 was same as that of 1996, what would have been the number of cars produced in 1997?
1) 1,30,000 2) 1,20,000
3) 1,12,500 4) Data inadequate
5) None of these
32. In the case of which of the following type of cars was the percentage increase from 1996 to 1997 the maximum?
1) C 2) B 3) A 4) D 5) E
33. If the company had sold 85% of the total E type cars manufactured in 1996 and 1997 together, how many E type cars remained unsold?
1) 25,200 2) 29,1000
3) 1,42,800 4) 21,825
5) None of these
34. If the number of A type cars manufactured in 1997 was the same as that of 1996, what would have been its approximate percentage share in the total production of 1997?
1) 15 2) 9 3) 11 4) 13
5) None of these
35. What was the difference in the production of C type cars between 1996 and 1997?
1) 7500 2) 10000
3) 2500 4) 5000
5) None of these

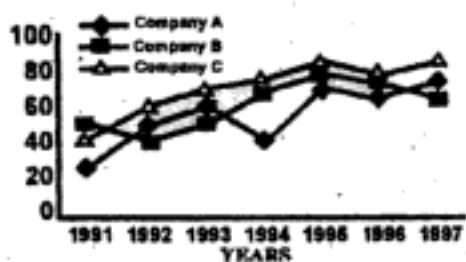
Directions (36-40): Read the following table carefully and answer the questions given below it.

Average marks obtained by 20 Boys and 20 Girls in five subjects from five different schools

Subjects	Max. Mark	SCHOOL									
		P		Q		R		S		T	
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
English	200	85	90	80	75	100	110	65	60	105	110
History	100	40	50	45	50	50	55	40	45	65	60
Geography	100	50	40	40	45	60	55	50	55	60	65
Mathematics	200	120	110	95	85	135	130	75	80	130	135
Science	200	105	125	110	120	125	115	85	90	140	135

36. The pooled average marks of both boys and girls in all the subjects was minimum from which of the following schools?
 1) S 2) T 3) P 4) R 5) Q
37. What was the difference between the total marks obtained in Mathematics by boys from school R and the girls from school S?
 1) 100 2) 1200 3) Nil 4) 1100
 5) None of these
38. In the case of which of the following schools was total marks obtained by girls in Mathematics 100% more than the total marks obtained by boys in History?
 1) T 2) T 3) Q 4) P 5) S
39. What was the total marks obtained by boys in History from school Q?
 1) 1000 2) 900 3) 1300 4) 800
 5) None of these
40. In which of the following subjects did the girls have highest average percentage of marks from all the schools?
 1) History 2) Science
 3) Geography 4) Mathematics
 5) English

Directions (41-45): Study the following graph carefully and answer the questions below it.



41. What was the percentage increase in imports by Company B from 1992 to 1993?
 1) 25 2) 20 3) 10 4) 40
 5) None of these
42. In which of the following years was the difference between the imports made by Company B and C the maximum?
 1) 1994 2) 1991 3) 1992 4) 1991
 5) None of these
43. In which of the following years was the imports made by all the three companies together the maximum?

- 1) 1997 only 2) 1995 only
 3) 1996 only 4) 1995 and 1997 only
 5) None of these
44. In which of the following years, the imports made by Company A were exactly equal to average imports made by it over the given years?
 1) 1994 2) 1995
 3) 1992 4) 1991
 5) None of these
45. In which of the following years was the imports made by Company A exactly half of the total import made by Company B and C together in that year?
 1) 1993 only 2) 1992 only
 3) 1995 only 4) 1992 and 1993
 5) None of these
46. The total monthly salary of 4 men and 2 women is Rs.46,000. If a woman earns Rs.500/- more than man, what is a woman's monthly salary?
 1) Rs.6,500/- 2) Rs.9,000/-
 3) Rs.7,500/- 4) Rs.8,000
 5) None of these
47. When the numerator of a certain fraction is increased by 1 and the denominator by 2 it changes to $\frac{2}{3}$; but when the numerator is increased by 5 and the denominator by 1, the value of the fraction changes to $\frac{5}{4}$, what is the original fraction?
- 1) $\frac{3}{7}$ 2) $\frac{5}{8}$ 3) $\frac{5}{7}$ 4) $\frac{6}{7}$
48. What will be the length of the diagonal of that square plot whose area is equal to the area of rectangular plot of length 45 metres and breadth 40 metres?
 1) 60 metres 2) 1800 metres
 3) 42.5 metres 4) Data inadequate.
 5) None of these
49. The population of a city is 9000 in a particular year. If there is an increase of 5% in men's population and 8% in women's population in the next year and

the population becomes 9600, what was the ratio between the men and women in that particular year?

- 1) 12:31 2) 45:47
- 3) 15:13 4) 14:51
- 5) None of these

50. A rectangular plate is 6 metre wide and 12 metre long. Two holes each of 2 metre diameter and 1 hole of 1 metre diameter have been gas cut in the plate. What is the area of the remaining plate?
- 1) 64.5 sq.metres 2) 68.5 sq.metres
 - 3) 66.5 sq.metres 4) 62.5 sq.metres
 - 5) None of these

REASONING

Directions (1-3): Read the following information carefully and answer the questions given below:

- (i) A, B, C, D, E, F, G and H are standing in a row facing North.
- (ii) B is not neighbour of G.
- (iii) F is to the immediate right of G and neighbour of E.
- (iv) C is not at the extreme end.
- (v) A is sixth to the left of E.
- (vi) H is sixth to the right of C.

1. Which of the following is true?

- 1) C is to the immediate left of A
- 2) D is neighbour of B and F
- 3) G is to the immediate right of D
- 4) A and E are at the extreme ends
- 5) None of these

2. Who among the following are neighbours?

- 1) CA 2) FH 3) CG 4) AB
- 5) None of these

3. Which one among the following defines the position of D?

- 1) To the immediate left of B
- 2) Neighbour B and F
- 3) Third to the right of A
- 4) Fourth to the right of H
- 5) None of these

4. Four of the following letter number groups are similar in connection with the position of these letters in the English alphabet and hence form a group. Which one does not belong to the group?

- 1) EK5 2) RV3 3) JR6
- 4) DG2 5) PY8

5. In the alpha numerical sequence / series given below, how many numbers are there which are (i) immediately followed

by a letter at the even place in English alphabet and (ii) not immediately preceded by a letter at the odd place in the English alphabet?

- W 2 N 1 V 9 G 2 P 4 X 6 K 7 R 1 T 8 L 3 H 5
Q 8 U 2 J
- 1) 4 2) 3 3) 2 4) 5
 - 5) None of these

Directions (6-8): Study the following information carefully and answer the questions given below:

- (i) Five courses A, B, C, D and E each of one month duration are to be taught from January to May one after the other though not necessarily in same order by lecturers, P, Q, R, S and T.
- (ii) 'P' teaches course B' but not in the month of April or May.
- (iii) 'Q' teaches course 'A' in the month of March.
- (iv) 'R' teaches in the month of January but does not teach course 'C' or 'D'.

6. Which course is taught in the month of January?

- 1) E 2) C 3) D
- 4) Data inadequate 5) None of these

7. Which course is taught by 'S'?

- 1) E 2) Either C or D 3) C
- 4) D 5) None of these

8. Which lecturer's course immediately follows after course 'B'?

- 1) S 2) T 3) P 4) Q
- 5) None of these

Directions (9-15) : Study the following information carefully to answer the questions given below:

The Institute of Technology runs B.C. College of Engineering. It applies following criteria

for selection of students for admission for the B.C. College.

The student should

- (1) have born before 1.3.81 and after 28.2.78.
 - (2) have obtained minimum 80% marks in aggregate and minimum 90% marks in Maths and Science at H.S.C.*
 - (3) have passed intermediate drawing examination conducted by the State government.
 - (4) be willing to pay a deposit of Rs.15,000/- as laboratory security.
 - (5) be found physically fit in the medical examinations being conducted by the Institute. However, if the student fulfills all other criteria except
- (a) criteria (2), but has obtained minimum 85% marks in aggregate as well as in Maths and Science his case may be referred to the Vice-President of the Institute.
 - (b) criteria (3) but has won award in Inter-school drawing competition, his case may be referred to the Principal of the college.
 - (c) criteria (4) but is a relative of a member of Board of Trustee's of the Institute, his case may be referred to the Chairman of the admission committee.

Based on the above criteria and the information given in each case, you have to take a decision. You are not to assume anything. These cases are given to you as on 28.2.1999.

Mark Answer (1) If the student is to be admitted; (2) If the student is to be referred to Vice - President of the Institute; (3) If the student is to be referred to the Principal of college; (4) If the student is to be referred to the Chairman of the admission committee; (5) If the student is not to be admitted.

9. Narendra whose date of birth is 21.4.79 is a student of Electrical Engineering diploma course. He has scored 85% marks in aggregate and 89% marks in Maths and Science at H.S.C. examination. He has done a part time course in computer operating. He is medically fit as reported by the Institute's

team. He has passed the state level intermediate drawing examination in 1994 obtaining 'A' grade. He has no problem in paying the amount of deposit.

10. Virendra, born on 19th January 1980 has passed the H.S.C. examination with 91% marks in Maths and Science and an aggregate score of 84%. He will manage to pay the amount of Rs.15,000/- as security deposit to the institute. He is medically fit as per the report of the institute's team of doctors. He has passed intermediate drawing examination of the state. However, he could never win a prize in any of the inter school drawing competitions.
11. Sujit a 20 years old boy has passed his H.S.C. examination securing 87% marks in aggregate and 88% marks in Maths and Science. He is willing to deposit of Rs.15,000/- as Lab Security deposit and is found fit by the team of doctors conducting medical examination. He has passed the intermediate drawing examination of the state.
12. Asmita is a 19 years old girl, having passed her H.S.C. in 1997 with 88% aggregate marks and 93% marks in Maths and Science. She is studying in F.Y. B.Sc. and has secured distinction in the first semester. She had participated in interschool drawing competitions and has won the awards on two occasions. She is found fit by the medical examiners appointed by the institute. She is the daughter of an industrialist and can pay any amount as deposit.
13. Sunita has passed HSC examination with 82% marks in aggregate and 92% marks in Maths and Science. She is found fit in the medical examination and can pay the required amount of deposit. Her date of birth is 1.3.81. She has passed the state level intermediate drawing examination.
14. Ninad, the only son of a Chartered Accountant who is also a trustee of the Institute has passed the drawing examination of the state and has just passed H.S.C. examination securing more than 90% marks in aggregate as well as in Maths and Science. His date of birth is 15.6.1980. He is physically fit as per the medical examination report of the Institute.

He cannot pay more than Rs.10,000/- against the security deposit. He has passed the state level intermediate drawing examination with grade B.

15. Ravi, an 18 years old boy is the nephew of an industrialist who is a trustee of the institute. Although he did not appear in the drawing examination of the state he has won gold medal in an interschool drawing competition. His aggregate marks in H.S.C. are 81% and the marks in Maths and Science are 91%. He is found to be physically fit by the team appointed by the institute. He is not in a position to pay any amount against deposit.

Directions (16-20): In the following questions the symbol \$, @, *, ** and # are used with the following meaning.

- A \$ B means A is greater than B
- A @ B means A is either greater than or equal to B
- A * B means A is equal to B
- A ** B means A is smaller than B
- A # B means A is either smaller than or equal to B

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is / are definitely True?

- Give answer (1) if only conclusion I is true
- Give answer (2) if only conclusion II is true
- Give answer (3) if either I or II is true
- Give answer (4) if neither I nor II is true
- Give answer (5) if both I and II are true.

16. **Statements:** P @ Q, M # N, N ** Q

- Conclusions:** I. P \$ M
II. N # P

17. **Statements:** D ** X, F @ Y, D \$ F

- Conclusion:** I. X @ Y
II. Y # D

18. **Statements:** M ** P, S \$ T, M @ T

- Conclusions:** I. S * M
II. T ** P

19. **Statements :** I. U * V, X \$ W, U ** W

- Conclusions :** I. W \$ V
II. U ** X

20. **Statements:** G \$ H, J # H, H * L

- Conclusions:** I. H \$ H
II. J * H

Directions (21-25): In each question below are given three statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts.

21. **Statements:** Some cars are jeeps.
All boxes are jeeps.
All pens are cars.

- Conclusions:** I. Some cars are boxes.
II. No pen is jeep.
III. Some boxes are cars.

- 1) None follows
- 2) Only I and II follow
- 3) Only II and III follow
- 4) Only III follows
- 5) Only I follows

22. **Statements:** Some rats are cats.
Some cats are dogs.
No dog is cow.

- Conclusions:** I. No cow is cat.
II. No dog is rat.
III. Some cats are rats.

- 1) None follows
- 2) Only I and II follow
- 3) Only II and III follow
- 4) Only III follows
- 5) Only I follows

23. **Statements:** Some cups are pots.
All pots are tubes.
All cups are bottles.

- Conclusions:** I. Some bottles are tubes
II. Some pots are bottles.
III. Some tubes are cups.

- 1) Only I and II follow
- 2) Only II and III follow
- 3) Only I and III follow
- 4) I, II and III follow
- 5) None follows

24. Statements: All locks are keys.

All keys are bats.

Some clocks are bats.

Conclusions: I. Some bats are locks.

II. Some clocks are keys.

III. All keys are locks.

1) Only I and II follow

2) Only II and III follow

3) Only I follows

4) Only II follows

5) I, II and III follow

25. Statements: All papers are books.

All bags are books.

Some purses are bags.

Conclusions: I. Some papers are bags.

II. Some books are papers.

III. Some books are purses.

1) None follows

2) Only I and II follow

3) Only II and III follow

4) Only III follows

5) Only I follows

Directions (26-30) : In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (1) if only assumption I is implicit,

Give answer (2) if only assumption II is implicit,

Give answer (3) if either I or II is implicit,

Give answer (4) if neither I nor II is implicit, and

Give answer (5) if both I and II are implicit.

26. Statements: Traffic police be given anti-pollution masks while manning traffic signals.

Assumptions:

I. Traffic police will be able to carry out their work after wearing the mask.

II. The masks are safe for wearing and there is no other adverse side effect.

27. Statement: Please do not use lift while going down — an instruction on the top floor of a five storey building.

Assumptions:

I. While going down the lift is unable to carry any load.

II. Provision of lift is a matter of facility and not of right.

28. Statement: You can win over new people by your warm smile.

Assumptions:

I. It is necessary to win over new people.

II. It is possible for us to smile warmly at unknown people

29. Statement: "Please note that the company will provide accommodation to only outside candidates if selected" - A condition in an advertisement.

Assumptions:

I. The local candidates would be having some or other arrangement for their stay.

II. The company plans to select only local candidates.

30. Statement: Take this 'oven' home and you can prepare very tasty dishes which you were unable to prepare earlier - An advertisement of X brand oven.

Assumptions:

I. The user knows the procedure receipt of tasty dishes but do not have the proper oven to cook.

II. Only 'X' brand oven can cook very tasty dishes.

Directions (31-36): Study the following information carefully and answer the questions given below:

An exhibition is open for public since 9 a.m. till 3 p.m. and again since 4 p.m. till 10 p.m. In a day there are 12 batches of 1 hour each. The entry ticket bears a pass code made-up of seven words, which changes every hour following a particular rule. The pass-codes for 4 p.m. to 10 p.m. are same as those for respective hours during 9 a.m. till 3 p.m. i.e., the pass-code for 4 p.m. to 5 p.m. is same as of 9 a.m. to 10 a.m. and so on. Following is an illustration of the code and steps of arrangement for subsequent clock hours.

Day's Pass Code

First batch	9 a.m. to 10 a.m. (4 p.m. to 5 p.m.)	dig more and you will find water
Second batch	10 a.m. to 11 a.m. (5 p.m. to 6 p.m.)	and dig find you water will more

Third batch (11 a.m. to 12 noon) find and will you
 (6 p.m. to 7 p.m.) more water dig.
 and so on.

31. If the pass-code for third batch is "at study sleep and night child good", which batch will have the pass code "child sleep night and study good at"?
- Fourth
 - Fifth
 - Second
 - Sixth
 - None of these
32. If the pass-code for the second batch is 'do not play the near water dirty', what will be the pass code for 2 p.m. to 3 p.m. batch?
- near dirty not the play water do
 - near dirty not the play do water
 - dirty near play the not do water
 - dirty near not the play do water
 - None of these
33. If the pass-code for the batch 4 p.m. to 5 p.m. is 'go to office in time every day', what will be the pass code for 2 p.m. to 3 p.m. batch?
- to go day in every office time
 - to go in day every office time
 - day to go in every office time
 - to day go in every office time
 - None of these
34. If the pass-code for 5 p.m. to 6 p.m. is 'out in above over field the and', what will be the pass-code for 1 p.m. to 2 p.m.?
- the field and over out above in
 - field the and over out above in
 - the field and over out in above
 - field and the over out in above
 - None of these
35. If the pass-code for 7 p.m. to 8 p.m. batch is 'pen with write pencil nice time day', what will be the pass-code for 11 a.m. to 12 noon?
- nice day pencil with write time pen
 - nice day with pencil write pen time
 - day nice with pencil write pen time
 - day with nice pencil write pen time
 - None of these
36. If the pass-code for third batch is 'any cold and at is hill station', which batch will have the pass-code 'station is cold at and any hill'?

- Sixth
 - First
 - Fourth
 - Second
 - Fifth
37. If letters in the word UNIVERSAL are arranged in the alphabetical order and each letter is assigned numerical value equal to its serial number from the left in this rearranged order, what is the difference in the total of numerical values of vowels and that of consonants?
- 17
 - 20
 - 19
 - 21
 - None of these
38. Kalyani is mother-in-law of Veena who is sister-in-law of Ashok. Dheeraj is father of Sudeep, the only brother of Ashok. How is Kalyani related to Ashok?
- Aunt
 - Wife
 - Cousin
 - Mother-in-law
 - None of these
39. By following certain logic, 'Take Bath And Do Worship Of The Goddess' is decoded as 'And Bath Do Goddess Of Take The Worship'. How will "Then Why Did You Not Do Your Study" be decoded using that logic?
- Did Do Study Not Then Why You Your
 - Do Did Not Study Then You Your Why
 - Did Do Not Study Then Why You Your
 - Do Did Not Study Then Your You Why
 - Did Do Not Then Study Why You Your
40. If the sixth day of a month is Tuesday, what is the day on the 5th day prior to the 28th of that month?
- Wednesday
 - Thursday
 - Friday
 - Saturday
 - None of these

Directions (41-45): Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

Mark answer (1) if the inference is "definitely true" i.e. it properly follows from the statement of facts given.

Mark answer (2) if the inference is "probably true" though not "definitely true" in the light of the facts given.

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and store sufficient quantity of onion in advance to control price.

- II. The 'P' state government should make available network of fair price shops for the sale of onions during period of shortage.

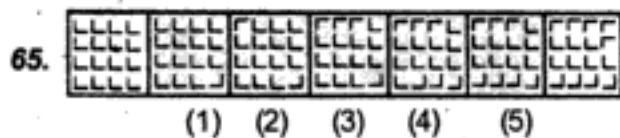
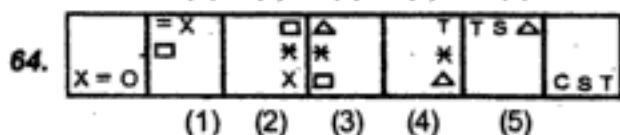
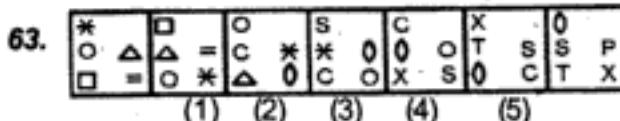
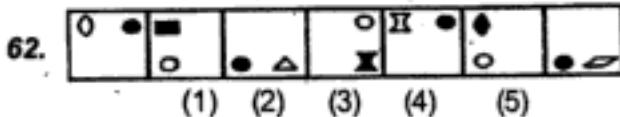
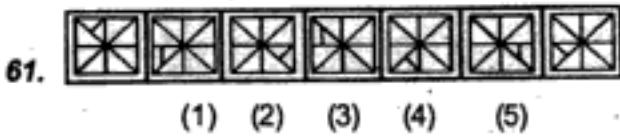
Directions (61-65): In each of the following, a series begins with unnumbered figure on the extreme left. One and only one of the five numbered figures in the series does not fit into the series. The two unnumbered figures one each on the extreme left and the extreme right fit into the series. You have to take as many aspects into account as possible of the figures in the series and find out the one and only one of the five numbered figures which does not fit into the series. The number of that figure is the answer.

Sample Question



- (1) (2) (3) (4) (5)

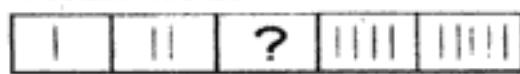
In this question the number of lines in the figures in the series goes on increasing by one from left to right. If we go by this aspect of 'number of lines' only then there is no wrong figure in the series. But if we also consider the 'manner' in which the 'number of lines' in the figures in the series goes on increasing from left to right we come to know that the figure No.4 does NOT fit into the series. Therefore, 4 is the answer.



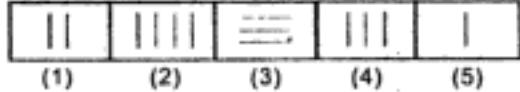
Directions (66-70): In each of these questions there are two sets of figures. The figures on the top are Problem Figures (four figures and one question-marked space) and those on the bottom are Answer Figures indicated by numbers 1, 2, 3, 4 and 5. A series is established if one of the five Answer Figures is placed at the "question-marked space". Figures form a series if they change from left to right according to same rule. The number of the Answer Figure which should be placed in the question-marked space is the answer. All the five figures i.e. four Problem Figures and one Answer Figure placed in the question-marked space should be considered as forming the series.

Study the following sample question.

PROBLEM FIGURES



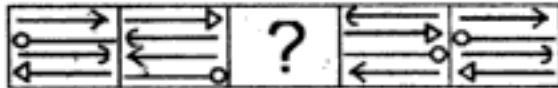
ANSWER FIGURES



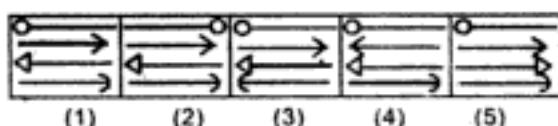
- (1) (2) (3) (4) (5)

If we place the Answer Figure 4 in the question marked space it makes a series which indicates that one vertical line is added in each figure. So the answer is '4'. Note that if we go by only one aspect of 'number of lines', Answer Figure 3 may also fit in. So you have to consider all different aspects.

66. **PROBLEM FIGURES**

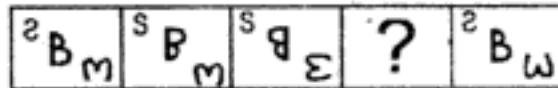


ANSWER FIGURES

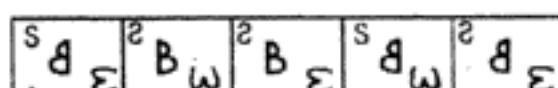


- (1) (2) (3) (4) (5)

67. **PROBLEM FIGURES**



ANSWER FIGURES

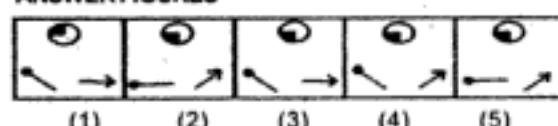


- (1) (2) (3) (4) (5)

68. **PROBLEM FIGURES**



ANSWER FIGURES



- (1) (2) (3) (4) (5)

69. PROBLEM FIGURES



ANSWER FIGURES



70. PROBLEM FIGURES



ANSWER FIGURES



(1) (2) (3) (4) (5)

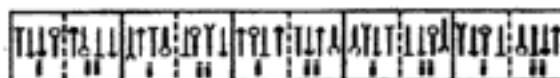
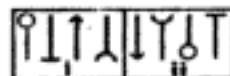
Directions (71-75): In each of the following questions, a related pair of figures followed by five numbered pairs of figures. Select the pair that has a relationship similar to that in the original pair. The best answer is to be selected from a group of fairly close choices.

71.



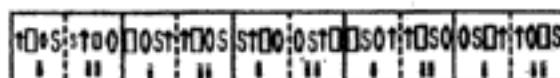
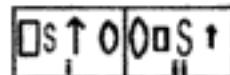
(1) (2) (3) (4) (5)

72.



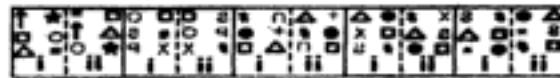
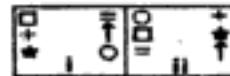
(1) (2) (3) (4) (5)

73.



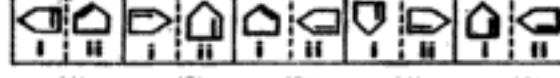
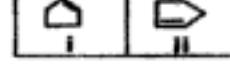
(1) (2) (3) (4) (5)

74.



(1) (2) (3) (4) (5)

75.



(1) (2) (3) (4) (5)

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Here, the cost of fencing is given in rupees per metre, therefore with the help of this we can't calculate the area and required answer.

$$8.(5) 152 \sqrt{?} + 795 = 8226 - 3486$$

$$\text{or, } 152 \sqrt{?} + 795 = 4740$$

$$\text{or, } 152 \sqrt{?} = 4740 - 795$$

$$\text{or, } 152 \sqrt{?} = 3945$$

$$\text{or, } \sqrt{?} = \frac{3945}{152}$$

$$\text{or, } ? = 25.95$$

$$\therefore ? = 673.60 \approx 675$$

9.(4) Option (1)

$$\Rightarrow (a-b)^2 + 4ab$$

$$= a^2 + b^2 - 2ab + 4ab$$

$$= a^2 + b^2 + 2ab$$

$$= (a+b)^2$$

Option (2)

$$\Rightarrow a(a+b) + b(a+b)$$

$$= (a+b)(a+b)$$

$$= (a+b)^2$$

Option (3)

$$\Rightarrow (a^2 - b^2) + 2b(b+a)$$

$$= (a+b)(a-b) + 2b^2 + 2ab$$

$$= a^2 - b^2 + 2b^2 + 2ab$$

$$= a^2 + b^2 + 2ab$$

$$= (a+b)^2$$

Option (4)

$$\Rightarrow (a-b)b + (a+b)2b$$

$$= ab - b^2 + 2ab + 2b^2$$

$$= \boxed{b^2 + 3ab}$$

Option (5)

$$\Rightarrow (a+b)^2 - 2a(a-b) + a(2a-2b)$$

$$= (a+b)^2 - 2a^2 + 2ab + 2a^2 - 2ab$$

$$= (a+b)^2$$

Therefore, the required answer is option (4).

10.(2) Let the Vishal monthly income Rs.100

$$\therefore \text{Raghul's monthly income} = \text{Rs.80}$$

$$\therefore \text{Naresh's monthly income}$$

$$= \text{Rs.80} + 30\% \text{ of } 80$$

$$= \text{Rs.104}$$

\therefore According to question,

$$(104 - 100) \Rightarrow \text{Rs.800}$$

$$\therefore 80 \Rightarrow \frac{\text{Rs.800}}{4} \times 80$$

$$= \text{Rs.16000}$$

11.(2) Let the two numbers be x and y

\therefore According to question,

$$30\% \text{ of } x + y = 140\% \text{ of } y$$

$$0.30x + y = 1.40y$$

$$0.30x = 0.40y$$

$$\frac{x}{y} = \frac{4}{3}$$

12.(3) Let the labelled price of article be Rs.

\therefore According to question,

$$\text{Cost price of article} = x - 30\% \text{ of } x$$

$$= x - 0.30x$$

$$= 0.70x$$

$$\text{Selling price of article} = x + 12\% \text{ of } x$$

$$= 1.12x$$

$$\therefore \text{Profit} = 1.12x - 0.70x$$

$$= 0.42x$$

\therefore Percentage profit

$$= \frac{0.42x}{0.70x} \times 100$$

$$= 60\%$$

13.(5) Let the number be x

\therefore According to question,

$$\frac{2}{5} \text{ of } \frac{1}{4} \text{ of } \frac{3}{7} \text{ of } x = 15$$

$$\text{or, } \frac{2}{5} \times \frac{1}{4} \times \frac{3}{7} \times x = 15$$

$$x = \frac{15 \times 70}{3} = 350$$

Required answer = 50% of x

$$= 50\% \text{ of } 350$$

$$= \frac{50 \times 350}{100} = 175$$

14. (5) 5 P 9 + 3 R 7 + 2 Q 8 = 1114

For maximum value of Q, the value of P and R should be minimum. Therefore, if we put p = 0 and q = 0.

Then the maximum value for Q = 9.

$$\text{i.e., } 509 + 307 + 298 = 1114$$

$$15.(5) ? = 6 \frac{5}{6} \times 5 \frac{1}{3} + 17 \frac{2}{3} \times 4 \frac{1}{2}$$

$$= \frac{41}{6} \times \frac{16}{3} + \frac{53}{3} \times \frac{9}{2}$$

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48.(1) According to question,

$$x^2 = 45 \times 40$$

$$x = \sqrt{1800}$$

$$= \sqrt{900 \times 2}$$

$$= 30\sqrt{2}$$

\therefore Diagonal of square

$$= \sqrt{(30\sqrt{2})^2 + (30\sqrt{2})^2}$$

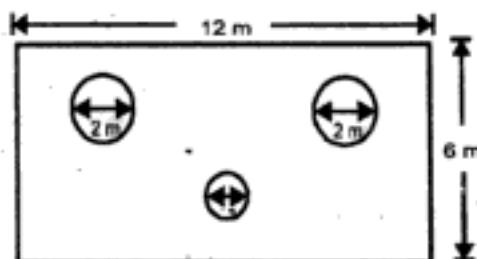
$$= \sqrt{900 \times 2 + 900 \times 2}$$

$$= \sqrt{3600}$$

$$= 60 \text{ metres}$$

49.(5)

50.(5)



Required answer

$$= 12 \times 6 - [\pi(1^2 + 1^2 + (0.5)^2)]$$

$$= 12 \times 6 - [\pi(1 + 1 + 0.25)]$$

$$= 12 \times 6 - \left[\frac{22}{7} \times 2.25 \right]$$

$$= 12 \times 6 - 7.07$$

$$= 72 - 7.07$$

$$= 64.93 \text{ m}^2$$

REASONING

(1-3): On the basis of the given information, we will get the following arrangement:

A C B D G F E H

1.(3) G is to the immediate right of D.

2.(1) A and C are neighbours.

3.(3) D is third to the right of A.

4.(3) The number associated with letters is one less than the difference between position numbers of the two letters.

P V E K

16 25 5 11

25 - 16 = 9 11 - 5 = 6

9 - 1 = 8 6 - 1 = 5

R V D G

18 22 4 7

22 - 18 = 4 7 - 4 = 3

4 - 1 = 3 3 - 1 = 2

But,

J R

10 18

18 - 10 = 8

8 - 1 = 7

5.(4) In the given series letters of even place are :

N, V, P, X, R, T, L, H, J

In the given series letters of odd place are:

W, G, K, Q, U

According to question

W, G, K, Q or U	Number	N, V, P, X, R, T, L, H or J
--------------------------------	--------	--

W2 NIV 9 G 2 P 4 X 6 K 7 RIT 8L 3H 5 Q 8 U 2 J

Thus, there are five such numbers.

(6-8): On the basis of given information and conclusions derived from them, we can construct the following table:

Lecturer	Course	Month
P	B	February
Q	A	March
R	E	January
S	C/D	April/May
T	C/D	April/May

6.(1) Course E is taught in the month of January.

7.(2) S teaches either course of C or D.

8.(4) Q's course follows course B.

(9-15): Age as on 28.2.1999

Minimum ————— Maximum
18 years 21 years

Candidate	(1)	(2) or (a)	(3) or (b)	(4) or (c)	(5)
Ninad	✓	✓	—	✓	✓
Narendra	✓	—	✓	—	✓
Sunita	X	✓	—	✓	✓
Virendra	✓	✓	—	✓	✓
Ravi	✓	✓	—	X	✓
Sujit	✓	—	✓	—	✓
Asmita	✓	✓	—	✓	✓

- 9.(2) Narendra satisfies criterion (a) instead of (2) and remaining criteria. Therefore, his case should be referred to the Vice-President of the Institute.
- 10.(1) Virendra satisfies all the criteria. Therefore, he can get admission
- 11.(2) Sujit satisfies criterion (a) instead of (2) and other criteria. Therefore, his case should be referred to the Vice-President of the Institute.
- 12.(3) Asmita satisfies criterion (b) instead of (3) and other criteria. Therefore, her case should be referred to the Principal of the college.
- 13.(5) Sunita's date of birth is 1.3.1981 and as per criteria the candidate should have born before that date. Therefore, she is not to be admitted.
- 14.(4) Ninad satisfies criterion (c) instead of (4) and all other criteria. Therefore his case should be referred to the Chairman of the admission committee.
- 15.(5) Ravi does not satisfy two basic criteria. Although he satisfies the additional criteria, he cannot be admitted.

(16-20)

$\$ \Rightarrow >; \quad @ \Rightarrow \geq;$
 $* \Rightarrow =; \quad ** \Rightarrow < \text{ and } \# \leq$

16.(1) **Statements:** $P @ Q, M \# N, N ** Q$

After conversion: $P \geq Q; M \leq N; N < Q$
or, $M \leq N < Q \leq P$

Conclusions: I. $P \$ M \Rightarrow P > M$ II. $N \# P \Rightarrow N \leq P$

Only conclusion I is true. N is definitely greater than P.

17.(4) **Statements:** $D ** X, F @ Y, D \$ F$

After conversion: $D < X; F \geq Y, D > F$
or, $Y \leq F < D < X$

Conclusions: I. $X @ Y \Rightarrow X \geq Y$
II. $Y \# D \Rightarrow Y \leq D$

Neither of the conclusions is definitely true.

18.(2) **Statements:** $M ** P, S \$ T, M @ T$

After Conversion: $M < P; S > T, M \geq P$
or, $S > T \leq M < P$

Conclusions: I. $S * M \Rightarrow S = M$
II. $T ** P \Rightarrow T < P$

Only conclusion II is true

19.(1) **Statements:** $U * V, X \$ W, U ** W$

After conversion: $U = V, X > W, U < W$
or, $U = V < W > X$

Conclusions: I. $W \$ V \Rightarrow W > V$
II. $U ** X \Rightarrow U < X$

Only conclusion I is true.

20.(3) **Statements:** $G \$ H, J \# K, H * K$

After conversion: $G > H, J \leq K, H = K$
or, $G > H = K \geq J$

Conclusions: I. $H \$ J \Rightarrow H > J$
II. $J * H \Rightarrow J = H$

J is either smaller than or equal to J.
Therefore, either I or II is true.

21.(1) Since all the premises are affirmative, no negative conclusion follows. Therefore, conclusion II does not follow.

For conclusions II and III, take the first and the second premises:

All boxes are jeeps

Some jeeps are cars (converse
of the first premise)

We know that $A + I \rightarrow \text{No conclusion}$

Therefore, no conclusion follows

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7 5 2 4 3 1 6
field the and over out in above

35.(5) Pass-code for fourth batch: 7 p.m. to 8 p.m.

5 6 7 4 1 2 3
pen with write pencil nice time day

Therefore,

Pass-code for third batch : 11 a.m. to 12 noon

6 3 5 4 2 7 1
with day pen pencil time write nice

36.(2) Pass-code for third batch: 11 a.m. to 12 noon (6 p.m. to 7 p.m.)

6 3 5 4 2 7 1
any cold and at is hill station
Now,
station is cold at and any hill
1 2 3 4 5 6 7

37.(1) According to question

1 2 3 4 5 6 7 8 9
A E I L N R S U V

Vowels: A, E, I And U

Their numerical value

$$= 1 + 2 + 3 + 8 = 14$$

Consonants: L, N, R, S, V

Their numerical value

$$= 4 + 5 + 6 + 7 + 8 = 31$$

$$\text{Difference} = 31 - 14 = 17$$

38.(5) Sudeep is the only brother of Ashok.

Veena is sister-in-law of Ashok.

Therefore, Veena is the wife of Sudeep.

Kalyani is mother-in-law of Veena and therefore, she is mother of Sudeep and Ashok.

39.(3) Careful observation of the coding pattern reveals that the words have been arranged in alphabetical order:

6 2 1 3 8 5 7 4
Take Bath And Do Worship Of The Goddess
Thus,

1 2 3 4 5 6 7 8
And Bath Do Goddess Of Take The Worship

Similarly,

5 6 1 7 3 2 8 4
Then Why Did You Not Do Your Study

Now,

1 2 3 4 5 6 7 8
Did Do Not Study Then Why You Your

40.(3) 6th → Tuesday

Therefore,

13th → Tuesday

20th → Tuesday

27th → Tuesday

And, 28th → Wednesday

5th prior to 28th → 23rd

20th → Tuesday

21st → Wednesday

22nd → Thursday

23rd → Friday

41.(4) The inference is probably false. It is mentioned in the passage that planning was guided by political convictions and since planning is accomplished by the Government, it cannot remain unaffected by the ideology of the ruling party. However, there is no direct reference to this fact in the passage.

42.(1) The very first line of the passage stipulates that in India the process of planning for development has been overwhelmingly dominated by experts and technocrats. However, this statement has been negated in the second line. But the whole passage indicates that common people have never been there in the process of planning. Therefore inference is definitely false.

43.(3) There is no mention about the success or failure of planning in India.

44.(5) From the third line of the passage it is clear that planning is to be accomplished by economists. Note the use of word "alone" in the inference.

45.(3) The inference is definitely false. It is mentioned in the passage that planning for development was influenced more by political convictions.

46.(1)

1 2 3 4 5 6 7 8 9 10

When And Why Did You Take Dip In The Lake

It has been decoded as:

4 2 6 3 10 9 1 8 7 5

Did And Take Why Lake The When In Dip You

Similarly,

4 2 6 3 10 9 1 8 7 5

Came They Frightened If Wish Here And Out There Through.

Thus,

1 2 3 4 5 6 7 8 9 10

And They If Came Through Frightened There Out Here Wish .

47.(1) $\Rightarrow 20 - 10 = 200$

i.e. $20 \times 10 = 20$

It means $\rightarrow X$

$\Rightarrow 8 \div 4 = 12$

i.e. $8 + 4 = 12$

It means $+$ $\Rightarrow +$

$\Rightarrow 6 \times 2 = 4$

i.e. $6 - 2 = 4$

It means $X \Rightarrow -$

$\Rightarrow 12 + 3 = 4$

i.e. $12 + 3 = 4$

It means $+$ $\Rightarrow +$

Given expression

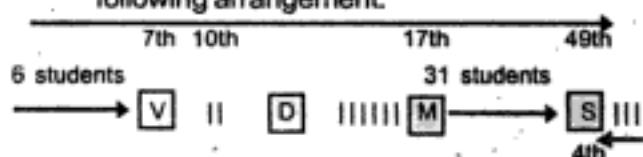
$$100 - 10 \times 1000 \div 1000 + 100 \times 10 = ?$$

After changing the signs

$$? = 100 \times 10 - 1000 + 1000 + 100 - 10$$

$$\text{or, } ? = 1000 - 1000 + 10 - 10 = 0$$

- 48.(1) According to question we can get the following arrangement:



It is clear that, there are 52 students in the class.

- 49.(1)
- | | | | | | | | | |
|---|----|---|----|---|----|---|----|---|
| U | -2 | S | -4 | O | -2 | M | -4 | I |
| P | -8 | H | -4 | D | -2 | B | -1 | A |
| I | +1 | J | +6 | P | +1 | Q | +6 | W |

- 50.(4) The letters of the words have been arranged in alphabetical order but from right to left to generate codes.
- | | | | | |
|---|---|---|---|---|
| 5 | 2 | 1 | 3 | 4 |
| T | H | E | I | R |

5 4 3 2 1
T R I H E

7 5 4 1 3 2 6
S O L D I E R

7 6 5 4 3 2 1
S R O L I E D

Similarly,

1 6 4 5 3 2
C U S T O M

6 5 4 3 2 1
U T S O M C

- *51.(4) Neither of the arguments is strong. Argument I is based on an example while argument II is an assumption.

- 52.(4) Neither of the arguments is strong. Argument I is more or less an individual opinion. Argument II is based on an example. We know that citing an example is bad argumentation.

- 53.(4) Neither of the arguments is strong. Argument I assumes that it will be both economical and effective. How it would be so? Argument II assumes that it may pose danger to security and safety of India. How it will pose danger?

- 54.(1) Argument I seems to be logically convincing while the argument II assumes that there are many reservations and hence further reservations to another group of people will not be appropriate. This is, however, not a strong argument.

- 55.(4) Neither of arguments is strong. We know that lottery is an evil practice and it should be discouraged. The Government can earn revenue from other sources to finance the development activities.

- 56.(2) Only course of action II is appropriate. If there are long queues of people, additional booking desks should be made available and the business hours should be increased temporarily. Course of action I lacks practical approach.

- 57.(1) Only course of action I seems to be appropriate for pursuing. In order to check the misuse of funds the state government should decide certain guidelines and norms for the functioning of the committee.
- 58.(4) Neither of the courses of action seems to be logically convincing.
- 59.(5) Both courses of action are appropriate. If the district administration has agreed to provide necessary infrastructural facilities, it should make land available and electricity.
- 60.(5) If there is probability of shortage of onions in only state 'P' then state government should make necessary arrangements for the same. Therefore, both the courses of action are appropriate.
- 61.(5) The small line segment becomes vertical alternately and it moves respectively 2, 3 and 4 sectors in anticlockwise direction.
- 62.(5) The shaded figure is either circle or rectangle alternately. In figure (5) there should be black rectangle.
- 63.(5) In the next figure the lower right design moves upward. Therefore, in figure (5) instead of (C), there should be (P).
- 64.(1) The three designs are arranged either vertically or horizontally.
- 65.(3) In the first step one lower design from the right gets reversed and in the next step one upper design from the left gets reversed. After that for two figures two designs are reversed from lower row and upper row one each.
- 66.(1) From Problem Figure (1) to (2) the first design from the top goes to the third place and is reversed. The second design occupies the fourth position and is reversed. The third design moves to the second position and is reversed. The fourth design goes to the top and is reversed.
- 67.(5) The design (S) is laterally reversed in the first step and remains so in the next step. The design (B) is vertically reversed (upside down) in the first step and in the next step it is laterally reversed. The third design remains static for the two figures and then it rotates 90° anticlockwise.
- 68.(3) The shaded part of the circle moves one sector clockwise alternately. The pin-head rotates 90° and 135° anticlockwise alternately. The arrow-head rotates 135° and 90° clockwise alternately.
- 69.(4) All the designs move anticlockwise in the subsequent figures. In the first step a new design appears in upper left sector and in the second step a new design appears in the lower right sector.
- 70.(1) In the first step the arrow-head descends one step and in the next step it is reversed at its position. One arc is added in each subsequent figure which gets reversed in the next step.
- 71.(3) In the second unit the designs become upside down.
- 72.(2) In the second unit all the designs reverse their direction. The first design from left moves to third place, the second design to the fourth place, the third design moves to the first place and the fourth design to the second place. In other words, first and third designs interchange their places and so as the second and the fourth designs.
- 73.(1) The right most design moves to the left most position and all other designs moves one step to the right. Again the smaller designs are enlarged and the bigger designs are reduced in the size.
- 74.(4) The movement of designs from element I to II can be shown as:
-
- ```

graph LR
 I((I)) --> II((II))
 I --> II
 I --> II
 I --> II

```
- 75.(4) The main design rotates 90° anticlockwise and the line segment moves one step clockwise.

**PROBATIONARY OFFICERS' [B.S.R.B (CALCUTTA)] EXAM**  
**Held in July 1999**  
**GENERAL AWARENESS**

1. Who amongst the following received the Oscar Award for the best actress, recently for her role in "Shakespeare in Love"?  
1) Judi Dench      2) Gwyneth Paltrow  
3) Whoopi Goldberg 4) Kathy Bates  
5) None of these
2. Which of the following hill ranges was recently severely hit by an earthquake (in March 99)?  
1) Nilgiri hill range 2) Vindhya hills  
3) Aravalli hill range 4) Satpura hills  
5) None of these
3. Which of the following is true about the visa rules for the travellers between India and Pakistan which were modified recently?  
1) Pakistan is in favour of strict visa rules for all sorts of Indian visitors and no visa to academicians and scientists from India  
2) India has proposed that no visa would be required to Pakistani visitors if they are senior citizens of Pakistan and coming to see their old friends/relatives in India  
3) India and Pakistan agreed to relax visa rules for several categories of visitors to and from both the countries  
4) Pakistan says that sports persons from all over the world can visit Pakistan without any visa or permit  
5) None of these
4. Which of the following is not true about the recognition of the Samata Party by the Election Commission of India?  
(A) In March 99 Election Commission derecognised Samata Party as a national party  
(B) As per Election Commission Samata Party is a State level party in Uttar Pradesh, Bihar and Maharashtra  
(C) Samata Party is a recognised state level party in Bihar, Haryana and Manipur.  
1) Only C      2) Only A  
3) A & B both      4) Only B
- 5) All are true
5. India recently launched a satellite named as --  
1) INSAT -2B      2) INSAT 1-A  
3) INSAT -2A      4) INSAT -2E  
5) None of these
6. Which of the following figures request the total volume of export of jewellery and gems from India during 1998-99. Which was a record in itself?  
(Billion dollars)  
1) 78      2) 65  
3) 128      4) 153  
5) 105
7. Union Cabinet has decided to put a ban on all lotteries run by the--  
(A) Union Government  
(B) State Government  
(C) private Organisations  
(D) Charitable Trusts  
1) Only B & C      2) Only A  
3) Only D      4) Only A & B  
5) Only C & D
8. Which of the following constituents of the BJP-led coalition Government in India withdrew its support from the Government which ultimately led to the fall of the same?  
1) Tamil Maanila Congress  
2) DMK      3) Shiv Sena  
4) AIADMK      5) Samata Party
9. Union Government has instituted a commission of inquiry to bring to an end to the controversy regarding the --  
1) distribution of revenue between state and central governments  
2) disappearance of Netaji Subhas Chandra Bose  
3) dismissal of Admiral Vishnu Bhagwat  
4) construction of Sardar Sarovar Dam  
5) Bofors issue

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- 1) French Open Badminton - Germany  
 2) Itallion Open Badminton - Italy  
 3) French Open Badminton - China  
 4) U.S. Open Badminton - Germany  
 5) U.S. Open Badminton - China
33. Recently which of the following T V channel has launched a new sports channel in India?  
 1) Doordarshan      2) Star TV  
 3) C N N              4) Zee T. V.  
 5) BBC
34. Sultan Salahuddin Abdul Aziz Shah Alhaj will be the new king of -  
 1) Malaysia      2) Jordan  
 3) Kuwait          4) U A E  
 5) None of these
35. Which of the following denotes the share of Indian diamonds in total volume of its sale in the world market as recorded recently?  
 1) 30%              2) 15%  
 3) 50%              4) 65%  
 5) 40%
36. Augusto Pinochet Ugarte of Chile was recently in news as he --  
 1) has again taken over as the President of Chile after an exile for 10 years  
 2) is being tried on the charges of crimes against humanity  
 3) absconded himself from the custody of UN peace keeping forces  
 4) took political asylum in Germany after a military Coup in his country, Chile  
 5) would be the new Secretary-General of U.N.O.
37. Which of the following is not true about the mass killing of Pigs in Malaysia recently?  
 (A) These Pigs were said to have developed viral infection fatal for human life  
 (B) this was the act of a lunatic person who killed about 20000 pigs in a poultry farm  
 (C) A group of people following a particular religion started killing these innocent animals as they consider them impure and dangerous for humanity  
 1) Only B              2) Only A  
 3) Only A & C        4) Only C
38. 5) A, B & C all are not true  
 Former world record holder Patrik Sjoberg announced his retirement from athletics recently. He was associated with which of the following?  
 1) Race              2) High jumps  
 3) Weight Lifting    4) Swimming  
 5) None of these
39. Which of the following is not true regarding production of tea in India?  
 1) India is the largest producer of the tea in the world  
 2) The east and north east states account for 82% of the total tea growing area in India  
 3) The total production of tea in India was about 76000 tonnes during 1995  
 4) India produces good varieties of CTC tea  
 5) Indian tea is not found suitable for export as the quality is far inferior than Kenyan tea
40. Which of the following cities of India is being developed as the 1st Solar city of India through the promotion of non conventional source of energy?  
 1) Pune              2) Anandpur Sahib  
 3) Bangalore        4) Anand  
 5) Secunderabad
41. Which of the following units of the Department of Atomic Energy takes care of entire requirement of Uranium Oxide Fuels and Zirconium alloy components for the nuclear power reactor in India?  
 1) Nuclear Power Corporation  
 2) Heavy Water Board  
 3) Atomic Energy Regulatory Board  
 4) Nuclear Fuel Complex  
 5) None of these
42. Which of the following combinations is not correct?  
 1) Yamini Krishnamurthy-Classical Vocal Music  
 2) Arun Shourie - Journalism  
 3) Amrita Pritam-Writing  
 4) Hariprasad Chauraasia-Classical Instrumental Music  
 5) Satish Gujral-Painting

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- 5' None of the above sentences is correct, as the answer.
- 21. He is sure to receive his pay. It is due to him. Why then does he worry ?**
- 1) Why should he worry as the pay due to him is sure to be received ?
  - 2) Why does he worry, till he is sure to receive his pay due to him ?
  - 3) Why does he worry, since the pay due to him is sure to be received ?
  - 4) Why does he worry as he should be sure to receive the pay due to him ?
  - 5) None of the above sentences is correct.
- 22. They watched. They wondered. They were unable to find the reason.**
- 1) They watched and wondered but were unable to find the reason.
  - 2) They watched and wondered till they were unable to find the reason.
  - 3) They watched and wondered despite being unable to find the reason.
  - 4) They had watched and wondered but were unable to find the reason.
  - 5) None of the above sentences is correct.
- 23. I was very much overwhelmed. I did not make any decision.**
- 1) I could not make any decision as I was very much overwhelmed.
  - 2) I was so overwhelmed to make any decision.
  - 3) Being very much overwhelmed I do not make any decision.
  - 4) I was too overwhelmed to make any decision.
  - 5) None of the above sentences is correct.
- 24. He got up. He wound the cloth around his head.**
- 1) Getting up he did wound the cloth around his head.
  - 2) Haing got up, he had wound the cloth around his head.
  - 3) Having getting up, he wound the cloth around his head.
  - 4) Getting up, he wound the cloth around his head.
  - 5) None of the above sentences is correct.
- 25. Her father was listening keenly Rupa noticed this.**

- 1) Rupa had noticed that her father was listening keenly.
- 2) Rupa noticed that her father had listened keenly
- 3) Rupa noticed that her father was listening keenly
- 4) Rupa noticed that her father is listening keenly
- 5) None of the above sentences is correct.

- 26. The sun is very important to men. Men have long known this.**

- 1) The sun is very important to them is known to men
- 2) Men have long known how important the sun is to them
- 3) The men know the sun is very important to them
- 4) The sun has been very important for men is known to them
- 5) None of the above sentences is correct

**Directions (27-32): Some Phrases/idioms**  
are given below together with their meanings.  
Choose the correct meaning of the phrase/idiom  
and indicate the number of the meaning. If there is  
no correct meaning given, No.5 i.e. none of these  
will be the answer.

- 27. To have an axe to grind**

- 1) A private end to serve
- 2) To escape from the danger
- 3) To find a meaning that is not actually expressed
- 4) To state the real facts
- 5) None of these

- 28. To be in name only**

- 1) A position to maintain
- 2) To be held in high esteem
- 3) In honour of      4) In theory only
- 5) None of these

- 29. In this day and age**

- 1) To be suddenly aware of
- 2) To put all your efforts into
- 3) In modern times
- 4) A position to maintain
- 5) None of these

- 30. To stamp away**

- 1) In a benevolent mood
- 2) To go away in anger
- 3) To search desperately
- 4) To look out for    5) None of these

- 1) 19                  2) 15  
 3) Data inadequate    4) 17  
 5) None of these
9. Four of the five parts numbered (1), (2), (3), (4) and (5) in the following equation are exactly equal. Which of the parts is not equal to the other four? The number of that part is the answer.
- $$375.789 + 41.28 - 115.249 \backslash (1) = 6.45 \times 120.8$$
- $$- 477.34 \backslash (2) = 1015.71 - 738.416 + 24.526$$
- $$\backslash (3) = 853.12 + 109.73 - 661.03 \backslash (4) = 132.8$$
- $$\times 3.5 - 152.98 \backslash (5)$$
10. A rectangular garden has a 5-metre wide road outside around all the four sides. The area of the road is 600 square metres. What is the ratio between the length and the breadth of that plot?
- 1) 4:3                  2) 3:2  
 3) Data inadequate    4) 5:4  
 5) None of these
11. What should come in place of the question mark (?) in the following equation?
- $$9568 - 6548 - 1024 = ?$$
- 1) 4044                  2) 2086  
 3) 1896                  4) 2293  
 5) None of these
12. Four of the following parts numbered (1), (2), (3), (4), and (5) in the following equation are exactly equal. Which of the parts is not equal to the other four? The number of that part is the answer.
- $$45\% \text{ of } 1600 + \frac{2}{3} \text{ of } 270 \backslash (1) = 80\% \text{ of } 1000 +$$
- $$100\% \text{ of } 100 \backslash (2) = 140\% \text{ of } 500 + 150\% \text{ of }$$
- $$160 \backslash (3) = 60\% \text{ of } 1200 + \frac{1}{4} \text{ of } 720 \backslash (4) = 6$$
- $$\frac{1}{2} \text{ of } 200 - \frac{1}{3} \text{ of } 1200 \backslash (5)$$
13. 'A' completes a work in 12 days. 'B' completes the same work in 15 days. 'A' started working alone and after 3 days B joined him. How many days will they now take together to complete the remaining work?
- 1) 6                  2) 5  
 3) 4                  4) 8  
 5) None of these
14. What approximate value should come in place of the question mark (?) in the following equation?
- $$16 \sqrt{524} + 1492 - 250.0521 = ?$$
- 1) 1800                  2) 1600  
 3) 1400                  4) 1900  
 5) 2400
15. What approximate value should come in place of the question mark (?) in the following equation?
- $$1.542 \times 2408.69 + 1134.632 = ?$$
- 1) 3600                  2) 5200  
 3) 4600                  4) 6400  
 5) 4800
16. What should come in place of the question mark (?) in the following equation?
- $$5978 + 6134 + 7014 = ?$$
- 1) 19216                  2) 19226  
 3) 19126                  4) 16226  
 5) None of these
17. What approximate value should come in place of the question mark (?) in the following equation?
- $$8.539 + 16.84 \times 6.5 + 4.2 = ?$$
- 1) 40                  2) 44  
 3) 25                  4) 35  
 5) 42
18. An amount of money is to be divided among P, Q and R in the ratio of 4:9:16. If R gets 4 times more than P. What is Q's share in it?
- 1) Rs.3,600/-                  2) Rs.1,800/-  
 3) Data inadequate    4) Rs. 2,700/-  
 5) None of these
19. Amal borrowed a sum of money with simple interest as per the following rate structure:
- (a) 6 p.c.p.a. for the first three years  
 (b) 8 p.c.p.a. for the next five years  
 (c) 12 p.c.p.a. for the next eight years  
 If he paid a total of Rs. 5,040/- as interest at the end of twelve years, how much money did he borrow?
- 1) Rs. 10,000/-                  2) Rs. 8,000/-  
 3) Rs. 6,000/-                  4) Rs. 12,000/-  
 5) None of these

II. Village 'Y' is to the west of village 'Z' at a distance of 20 kms.

**Directions (21-23):** Study the following number series to answer these questions.

2 6 7 5 4 3 7 4 8 9 4 3 2 5 4 7 9 8 6 8 7 1 2 5  
3 7 6 8 9 3 6

21. If the order of last 15 numbers is reversed, which number will be eighth to the right of thirteenth number from left?

- 1) 4                  2) 7  
3) 6                  4) 8  
5) None of these

22. How many 7's are there in the series which are immediately preceded by an even number and immediately followed by an odd number?

- 1) 3                  2) 2  
3) 5                  4) 4  
5) None of these

23. How many such numbers are there in the series which are immediately followed by its multiple?

- 1) 2                  2) 4  
3) 1                  4) 3  
5) None of these

24. The following numbers are rewritten by interchanging the digits in ten's place and hundred's place and then arranged in the descending order. What will be the second digit of the newly formed fourth number from the top?

479, 736, 895, 978, 389, 675

- 1) 6                  2) 3  
3) 7                  4) 8  
5) 9

25. How many pairs of letters are there in the word CRYSTALLIZE, which have as many letters between them as in the alphabet?

- 1) 3                  2) 1  
3) 4                  4) 2  
5) None of these

26. In a certain code language the word 'NUMBER' is written as 'UMHTEL.' How will the word 'SECOND' be written in that language?

- 1) CTQFRB            2) CTQDRB  
3) GRQFRB            4) GRQDRB  
5) None of these

**Directions (27-30):** Read the following information carefully to answer the questions.

(i) In a family of six members A, B, C, D, E and F each one plays one game out of the six games Chess, Carrom, Table-tennis, Badminton, Bridge and Cricket.

- (ii) Two are married couples  
(iii) B who plays Carrom is daughter-in-law of E

(iv) A is father of D, the Table-tennis player and D is father of C who plays Cricket  
(v) F is brother of C

(vi) Chess is not played by a female member  
(vii) E's husband plays Badminton

27. How is F related to A?

- 1) Son                2) Grand daughter  
3) Daughter          4) Grandson  
5) None of these

28. Who among them plays Bridge?

- 1) A                2) E  
3) Data inadequate 4) F  
5) None of these

29. How many male members are there in the family?

- 1) Four only        2) Two only  
3) Data inadequate 4) Three only  
5) None of these

30. Who is husband of B?

- 1) C                2) F  
3) Data inadequate 4) D  
5) A

**Directions (31-35):** Below is given a passage followed by several possible inferences which can be drawn from the facts stated in the passage. You have to examine each inference separately in the context of the passage and decide upon its degree of truth or falsity.

**Mark answer (1):** If the inference is "definitely true" i.e. it properly follows from the statement of facts given.

**Mark answer (2):** If the inference is "probably true" though not "definitely true" in the light of the facts given.

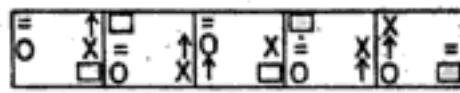
**Mark answer (3):** If the data are inadequate i.e. from the facts given you cannot say whether the inference is likely to be true or false.

**Mark answer (4):** If the inference is 'probably false' though not 'definitely false' in the light of the facts given.

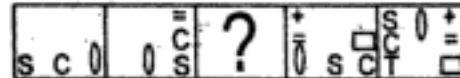
## 63. PROBLEM FIGURES



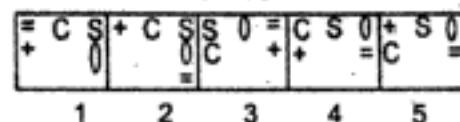
## ANSWER FIGURES



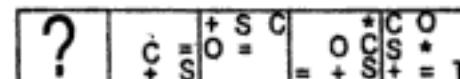
## 64. PROBLEM FIGURES



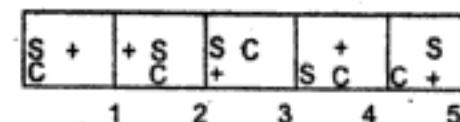
## ANSWER FIGURES



## 65. PROBLEM FIGURES

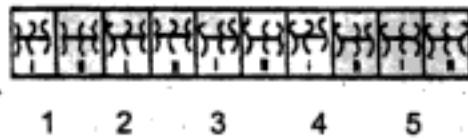


## ANSWER FIGURES



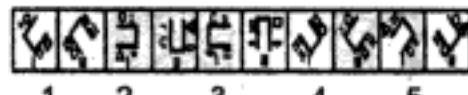
**Directions (66-70) :** In each of the following questions in four out of the five figures, element I is related to element II in the same particular way. Find out the figure in which the element I is not so related to element II.

66.



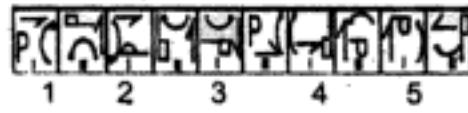
1 2 3 4 5

67.



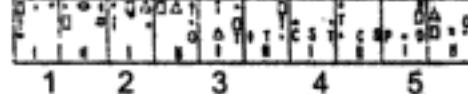
1 2 3 4 5

68.



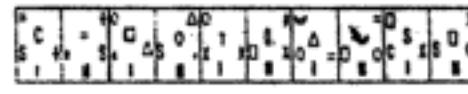
1 2 3 4 5

69.



1 2 3 4 5

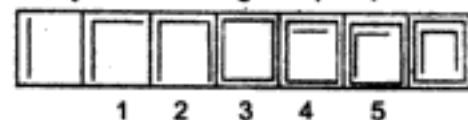
70.



1 2 3 4 5

**Directions (71-75) :** In each of the following questions a series begins with unnumbered figure on the extreme left. One and only one of the five numbered figures in the series does not fit into the series. The two unnumbered figures one each on the extreme left and the extreme right fit into the series. You have to take as many aspects into account as possible of the figures in the series and find out the one and only one of the five numbered figures which does not fit into the series. The number of that figure is the answer.

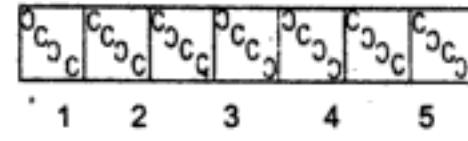
Study the following sample question.



In this question the number of lines in the figures in the series goes on increasing by one from left to right. If we go by this aspect of 'number of lines' only then there is no wrong figure in the series. But if we also consider the 'manner' in which the number of lines in the figures in the series goes on increasing from left to right we come to know that the figure No.4 does NOT fit into the series. Therefore 4 is the answer.

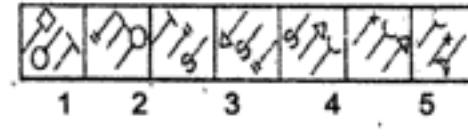
Now solve the following questions.

71.



1 2 3 4 5

72.



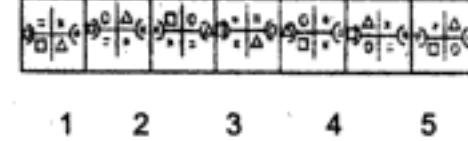
1 2 3 4 5

73.



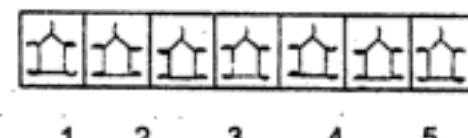
1 2 3 4 5

74.



1 2 3 4 5

75.



1 2 3 4 5

6. (1) Let father's age be  $x$  year and son's age be  $y$  year respectively.

$\therefore$  According to question,  
 $(x + y) = 4y \dots \text{(i)}$

$$\text{and } \frac{x+y}{2} = 28$$

$$\text{or, } x + y = 56 \text{ years} \dots \text{(ii)}$$

From equation (i) and (ii),

$$4y = 56$$

$$y = 14 \text{ years}$$

$$x = 42 \text{ years}$$

7. (3)  $\frac{5}{9} = 0.55$

$$\frac{7}{11} = 0.63$$

$$\frac{8}{15} = 0.53$$

$$\frac{11}{17} = 0.64$$

Therefore, the required order is

$$\frac{11}{17}, \frac{7}{11}, \frac{5}{9}, \frac{8}{15}$$

8. (3) Let the three consecutive odd numbers be  $x$ ,  $y$  and  $z$ .

$\therefore$  According to question,

$$\frac{x+y+z}{3} = \frac{x}{3} + 14$$

$$\text{or, } \frac{y+z}{3} = 14$$

$$\text{or, } y+z = 42$$

Since the equation available is one and number of unknown quantities is two. Therefore, we can't find the required answer.

9. (5) Option (1)

$$\Rightarrow 375.789 + 42.28 - 115.249$$

$$= 417.069 - 115.249$$

$$= 301.82$$

Option (2)

$$\Rightarrow 6.45 \times 120.8 - 477.34$$

$$= 779.16 - 477.34$$

$$= 301.82$$

Option (3)

$$\Rightarrow 1015.71 - 738.416 + 24.526$$

$$= 1040.236 - 738.416$$

$$= 301.82$$

Option (4)

$$\Rightarrow 853.12 + 109.73 - 661.03$$

$$= 962.85 - 661.03$$

$$= 301.82$$

Option (5)

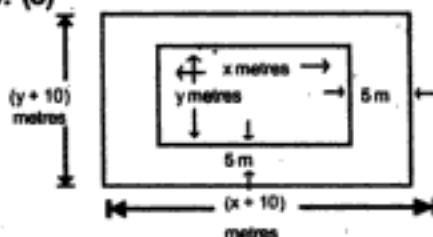
$$\Rightarrow 132.8 \times 3.5 - 152.98$$

$$= 464.8 - 152.98$$

$$= 311.82$$

Therefore, the required answer is option (5).

10. (3)



Let the length of the plot be  $x$  metre and breadth be  $y$  metre.

$\therefore$  According to question,

$$(x+10) \times (y+10) - xy = 600$$

$$\text{or, } x(y+10) + 10(y+10) - xy = 600$$

$$\text{or, } xy + 10x + 10y + 100 - xy = 600$$

$$\text{or, } 10x + 10y + 100 = 600$$

$$\text{or, } 10x + 10y = 500$$

$$x + y = 50$$

11. (5) ? = 9568 - 6548 - 1024

$$= 9568 - 7572$$

$$= 1996$$

12. (3) Option (1)

$$\Rightarrow 45\% \text{ of } 1600 + \frac{2}{3} \text{ of } 270$$

$$= \frac{45}{100} \times 1600 + \frac{2}{3} \times 270$$

$$= 45 \times 16 + 2 \times 90$$

$$= 720 + 180$$

$$= 900$$

Option (2)

$$\Rightarrow 80\% \text{ of } 1000 + 100\% \text{ of } 100$$

$$= \frac{80}{100} \times 1000 + \frac{100}{100} \times 100$$

$$= 80 \times 10 + 100$$

From equation (i) and (ii)

$$xh = 24 \times 18$$

Now, equation available is one and number of unknown quantities in two. Therefore, we can't find the value of h.

**29. (4)**

- 30. (5)** Let the two numbers be x and y in which x is larger and y is smaller number.

∴ According to statement I

$$x - y = \frac{x}{3} \dots \text{(i)}$$

and from statement II

$$x + y = 30 \dots \text{(ii)}$$

From equation (i) and (ii) we can find the value of x and y. Therefore, both the statements together are needed to answer the question.

- 31. (3)** The original series is based on following pattern:

$$5 + (12)^2 = 149$$

$$149 - (10)^2 = 49$$

$$49 + (8)^2 = 113$$

Therefore, the new series is as follows:

$$146 + (12)^2 = 290 \dots \text{(a)}$$

$$290 - (10)^2 = 190 \dots \text{(b)}$$

$$190 + (8)^2 = 254 \dots \text{(c)}$$

$$254 - (6)^2 = 218 \dots \text{(d)}$$

$$218 + (4)^2 = 234 \dots \text{(e)}$$

Therefore, the number 218 will come in place of (d).

- 32. (2)** The original series is based on following pattern:

$$15 + (1)^2 = 16$$

$$16 + (3)^2 = 25$$

$$25 + (5)^2 = 50$$

$$50 + (7)^2 = 99$$

Therefore, the new series is as follows:

$$189 + (1)^2 = 190 \dots \text{(a)}$$

$$190 + (3)^2 = 199 \dots \text{(b)}$$

$$199 + (5)^2 = 224 \dots \text{(c)}$$

$$224 + (7)^2 = 273 \dots \text{(d)}$$

$$273 + (9)^2 = 354 \dots \text{(e)}$$

Therefore, the number 354 will come in place of (e).

- 33. (4)** The original series is based on following pattern:

$$6 \times 0.5 + 0.5 = 3.5$$

$$3.5 \times 1 + 1 = 4.5$$

$$4.5 \times 1.5 + 1.5 = 8.25$$

$$8.25 \times 2 + 2 = 18.5$$

Therefore, the new series is as follows:

$$40 \times 0.5 + 0.5 = 20.5 \dots \text{(a)}$$

$$20.5 \times 1 + 1 = 21.5 \dots \text{(b)}$$

$$21.5 \times 1.5 + 1.5 = 33.75 \dots \text{(c)}$$

$$33.75 \times 2 + 2 = 69.5 \dots \text{(d)}$$

$$69.5 \times 2.5 + 2.5 = 176.25 \dots \text{(e)}$$

Therefore, the number 33.75 will come in place of (c).

- 34. (1)** The original series is based on following pattern:

$$9 \times 1 + 1 = 10$$

$$10 \times 2 + 2 = 22$$

$$22 \times 3 + 3 = 69$$

Therefore, the new series is as follows:

$$5 \times 1 + 1 = 6 \dots \text{(a)}$$

$$6 \times 2 + 2 = 14 \dots \text{(b)}$$

$$14 \times 3 + 3 = 45 \dots \text{(c)}$$

$$45 \times 4 + 4 = 184 \dots \text{(d)}$$

$$184 \times 5 + 5 = 925 \dots \text{(e)}$$

Therefore, the number 14 will come in place of (b).

- 35. (5)** The original series is based on following pattern:

$$2 \times 2 + 6 = 10$$

$$10 \times 2 + 7 = 27$$

$$27 \times 2 + 6 = 60$$

Therefore, the new series is as follows:

$$5 \times 2 + 6 = 16 \dots \text{(a)}$$

$$16 \times 2 + 7 = 39 \dots \text{(b)}$$

Therefore, the number 39 will come in place of (b).

- 36. (1)** Required average

$$= \frac{(60 - 45)}{60} \times 100$$

$$= \frac{15}{60} \times 100$$

$$= 25\%$$

- 37. (5)** The average production of 1990 and 1991

$$= \frac{40 + 60}{2}$$

$$= 50 \text{ thousand tons}$$

The average production of 1989 and 1995

$$= \frac{25 + 75}{2}$$

$$= 50 \text{ thousand tons.}$$

- 38. (1)** Average production of foodgrain

$$\begin{aligned}
 &= \frac{25+40+60+45+65+50+75+80}{8} \\
 &= \frac{440}{8} \\
 &= 55000 \text{ tons}
 \end{aligned}$$

Number of years in which the production was more than 55 thousand tons = 4

**39. (2)** Required difference

$$\begin{aligned}
 &= (60 - 50) \text{ thousand tons} \\
 &= 10 \text{ thousand tons} \\
 &= 10,000 \text{ tons}
 \end{aligned}$$

**40. (3)** Required percentage

$$= \frac{15}{25} \times 100 = 60\%$$

**41. (3)** Required percentage

$$\begin{aligned}
 &= \frac{(55 - 46)}{46} \times 100 \\
 &= \frac{9}{46} \times 100 = 19.56 \approx 20\%
 \end{aligned}$$

**42. (1)** Required answer =  $\frac{80}{64} \times 100 = 125$

**43. (2)** The difference in the average marks in History between 1994 and 1995 =  $58 - 49 = 9$

The difference of the highest marks in Hindi between 1992 and 1995  
=  $84 - 75 = 9$

**44. (5)** Required difference =  $98 - 88 = 10$   
Between 1992 and 1997

**45. (2)** Required answer  
=  $60 \times 50 = 3000$

**46. (2)** Required average

$$\begin{aligned}
 &= \frac{52+66+64+75+58}{5} \\
 &= \frac{315}{5} = 63
 \end{aligned}$$

**47. (4)** The average of highest marks in English in 1992, 1993 and 1996

$$= \frac{85+80+75}{3} = \frac{240}{3} = 80$$

Therefore, the required answer is 1993.

**48. (5)**

| Years | Hindi         |               |            |
|-------|---------------|---------------|------------|
|       | Highest marks | Average Marks | Difference |
| 1992  | 75            | 52            | 23         |
| 1993  | 80            | 53            | 27         |
| 1994  | 77            | 54            | 23         |
| 1995  | 84            | 64            | 20         |
| 1996  | 82            | 66            | 16         |
| 1997  | 81            | 57            | 24         |

Therefore, the difference between the highest marks and the average marks in Hindi was maximum in 1993.

**49. (4)** Let two numbers be x and y  
 $\therefore$  According to question,

$$x \times y = 192 \dots \text{(i)}$$

$$x + y = 28 \dots \text{(ii)}$$

$$\begin{aligned}
 (x - y)^2 &= (x + y)^2 - 4xy \\
 &= (28)^2 - 4 \times 192
 \end{aligned}$$

$$= 784 - 768 = 16$$

$$\therefore x - y = \sqrt{16} = 4 \dots \text{(iii)}$$

$\therefore$  From equation (ii) and (iii)

$$x = 16 \text{ and } y = 12$$

**50. (3)**

$$\begin{aligned}
 \text{TRICK: Original price} &= \frac{1120 \times 100}{70} \times \frac{100}{80} \\
 &= \text{Rs. 2000}
 \end{aligned}$$

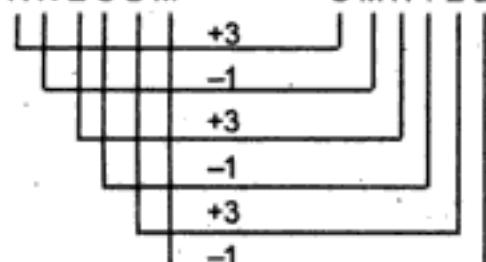
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| N | U | M | B | E | R |

Rearrangement

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 6 | 1 | 5 | 2 | 4 | 3 |
| R | N | E | U | B | M |

Now

R N E U B M                  U M H T E L

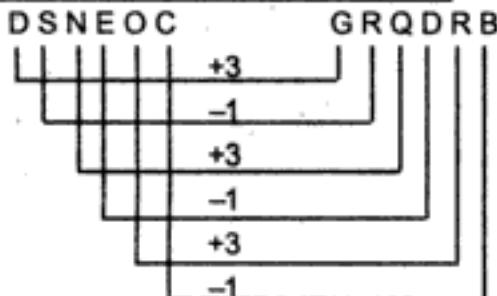


Similarly,

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| S | E | C | O | N | D |

Rearrangement

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 6 | 1 | 5 | 2 | 4 | 3 |
| D | S | N | E | O | C |



(27-30): On the basis of given information, we can draw the following table:

| Person | Sex | Game         | Relationship                                         |
|--------|-----|--------------|------------------------------------------------------|
| A      | M   | Badminton    | Father of D, Husband of E                            |
| B      | F   | Carrom       | Wife of D, Mother of C & F, Daughter-in-law of A & E |
| C      | -   | Cricket      | Child of D and B; Grandchild of A and E              |
| D      | M   | Table Tennis | Son of A and E, Father of C and F                    |
| E      | F   | Bridge       | Wife of A, Mother of D                               |
| F      | M   | Chess        | Son of D and B, Grandson of A and E                  |

27. (4) F is the grandson of A.

28. (2) E plays Bridge.

29. (3) The sex of C is not known.

30. (4) D is the husband of B.

31. (5)

32. (3)

33. (5) 34. (3) 35. (1)

36. (4) Neither of the conclusions follows from the information given in the statement.

37. (1) No government wants or intends to encourage corruption in the government offices. Therefore, conclusion II is not valid. If the Official Secrets Act which was enacted during the war is the source of corruption, it should be abolished after the war.

38. (4) Neither of the conclusions logically follows beyond a reasonable doubt. It is said that the candidates who have appeared for the final year examination of Masters Degree can also apply, but their selection is subject to the certain condition. Therefore, conclusion I is not valid.

The eligibility for admission to the course is minimum second class Masters Degree. This does not imply that all candidates who have obtained second class will be selected. Second class Masters Degree is the minimum required criterion.

39. (4) Neither of the conclusions follows from the information given in the statement.

40. (2) Only conclusion II follows. If it was declared that all the crewmen and passengers are missing there is possibility that some of them are alive.

41. (5) Both assumptions I and II are implicit in the statement. If employees do not learn by observing the behaviour of their bosses the statement would not have made. Again, it has been highlighted that bosses should not be considered as merely sources of

reward and punishments. It implies that bosses are generally considered as sources of reward and punishment. Hence, assumption II is implicit.

42. (5) Both assumptions I and II are implicit in the statement. If customers do not accept

or follow the suggestion of the shopkeeper, the latter has not made such a statement. Again, the shopkeeper rendered his view assuming that customer will consider his view. Therefore, assumption I is implicit. The statement clearly indicates that international technology ensures better quality.

43. (2) Only assumption II is implicit in the statement. Notice, the use of word **always** in the statement and assumption II. The statement does not imply that the written examination is good mainly for mediocre students. The statement implies that sometimes highly brilliant and industrious student also do not perform well in the written examination for one reason or another.

44. (1) Only assumption I is implicit in the statement. The instruction was issued assuming that people tend to be little shy and less objective while writing their self appraisal report if not so instructed. Assumption II is not properly related with the statement.

45. (5) Both assumption I and II are implicit in the statement. The statement implies clearly that length of service or seniority does not alone reflect merit of an employee. Notice the use of word **alone** in the assumption. If it is not possible to measure the merit of an employee why such statement has been made.

(46-50): A careful analysis of the given illustration reflects that the words have been grouped on the basis of number of letters they have and then the words of each group have been

arranged in alphabetical order starting with the group in which words have highest number of letters. One word is arranged in one step.

46. (2) Input: true se veto be nuke my like

Step I: like true se veto be nuke my

Step II: like nuke true se veto be my

Step III: like nuke true veto se be my

Step IV: like nuke true veto be se my

47. (1) Input: the in car as he may me

Step I: car the in as he may me

Step II: car may the in as he me

Step III: car may the as in he me

48. (5) Input: more fight cats cough sough acts idea

Step I: cough more fight cats sough acts idea

Step II: cough fight more cats sough acts idea

Step III: cough fight sough more cats acts idea

Step IV: cough fight sough acts more cats idea

Step V: cough fight sough acts cats more idea

Step VI: cough fight sough acts cats idea more

Step VI is the last step for the given input.

49. (5) From the given step we cannot determine the step in reverse manner.

50. (5) Step II: clever remand window sales batch tiger never

Step III: clever remand window batch sales tiger never

Step IV: clever remand window batch never sales tiger

And, Step IV is the last step for this input.

(51-57):

| Candidate | CRITERIA |     |     |     |     |     |      |  |
|-----------|----------|-----|-----|-----|-----|-----|------|--|
|           | or       |     | or  |     | or  |     |      |  |
|           | (A)      | III | (B) | (C) | (I) | (D) | (II) |  |
| Punam     | x        | x   | v   | v   | v   | v   | -    |  |
| Mohan     | v        | -   | x   | v   | v   | v   | -    |  |
| Sneha     | v        | v   | v   | v   | v   | v   | -    |  |
| Mulayam   | v        | -   | v   | v   | -   | v   | -    |  |
| Ajinkya   | v        | v   | v   | v   | -   | v   | -    |  |
| Chintan   | v        | -   | v   | v   | -   | -   | v    |  |
| Keval     | -        | v   | v   | v   | v   | v   | -    |  |



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