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SSC

PORTAL

E-BOOK

SOLVED EXAM
PAPER OF
SSC CGL TIER - I

for

*Staff Selection Commission
Examination*



SOLVED PAPER

SSC COMBINED GRADUATE LEVEL

Tier-I EXAM

Held on: 01.07.2012 (First Sitting)

GENERAL INTELLIGENCE & REASONING

Directions (1 - 9): In each of the following questions, select the related letters / word in number from the given alternatives.

1. 8 : 12 :: 6 : ?
 (1) 8 (2) 11
 (3) 5 (4) 7
2. 13 : 19 :: 21 : ?
 (1) 41 (2) 81
 (3) 141 (4) 14
3. Eagle : Swoops :: Duck : ?
 (1) waddles (2) floats
 (3) swims (4) flits
4. APPLE : 50 :: ORANGE : ?
 (1) 60 (2) 69
 (3) 61 (4) 63
5. Accommodation : Rent :: Journey : ?
 (1) Freight (2) Octrol
 (3) Fare (4) Expense
6. Fire : Smoke :: ?
 (1) Children : School
 (2) Cloud : Rain
 (3) Moon : Sky
 (4) Shoe : Polish
7. Grenade : Gun :: ?
 (1) Sister : Brother
 (2) Father : Mother
 (3) Man : Woman
 (4) Head : Brain
8. TSH : IRQ :: QPK : ?

- | | |
|---------|---------|
| (1) LNO | (2) LON |
| (3) PWK | (4) PON |

9. AEZ : FPY :: BGX : ?

- | | |
|---------|---------|
| (1) HWW | (2) IYY |
| (3) HTX | (4) HYW |

Directions (10 - 17): In each of the following questions, find the odd number / letters / word / number pair from the given alternatives.

10. (1) SP (2) NL
 (3) ZW (4) TQ
11. (1) Major (2) Colonel
 (3) Brigadier (4) Admiral
12. (1) Life Insurance Corporation
 (2) New India Assurance Company Ltd.
 (3) United India Insurance Company Ltd.
 (4) National Insurance Company Ltd.
13. (1) Hurdle (2) Disease
 (3) Barrier (4) Obstacle
14. (1) Mar (2) Remedy
 (3) Maim (4) Mutilate
15. (1) Socrates (2) Beethoven
 (3) Mozart (4) Bach
16. (1) (132, 5) (2) (125, 8)
 (3) (124, 7) (4) (112, 4)
17. (1) 6246-6296 (2) 7137-7267
 (3) 4344-4684 (4) 5235-5465

Directions (18 - 22): In each of the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

18. YX, UTS, ONML, ?
 (1) FEDCB (2) CFEDC
 (3) IHGFE (4) HGFED
19. DA, HE, LI, ?, TN

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- (1) PJ (2) PT
(3) PM (4) PK
20. BEINT ?
(1) X (2) Y
(3) A (4) Z
21. AZ, CX, EV, ?
(1) HT (2) HU
(3) GS (4) GT
22. D9Y, J27S, P81M, V243G, __?___.
(1) A324B (2) C729B
(3) B729A (4) A729B
23. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
_c _bd _cb cda _a _db _a
(1) daabbc (2) bdbcba
(3) adabed (4) cdbbca

Directions (24 - 27): In each of the following questions, identify the wrong number in the series.

24. 9,19,40,83, 170,340
(1) 83. (2) 40
(3) 340 (4) 170
25. 21,28,33,35,37,36
(1) 21 (2) 36
(3) 33 (4) 35
26. 5,13,29,61,120,253
(1) 120 (2) 253
(3) 61 (4) 29
27. 0,7,28,63, 124,215
(1) 28 (2) 215
(3) 7 (4) 63
28. Some relationships have been expressed through symbols which are explained below:
0 = greater than
 Δ = not equal to
 \times = not less than
+ = equal to
 ϕ = not greater than
 ∇ = less than

$a \nabla b \nabla c$ implies

- (1) $a \Delta A b \phi c$
(2) $a b + c$
(3) $a o b + c$
(4) $a o b \times c$

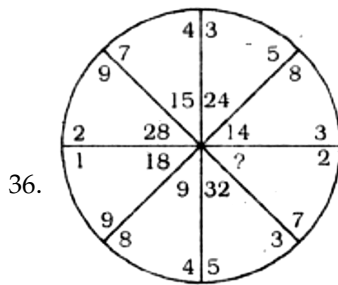
29.

2	3
4	5

= ?

- (1) 14400 (2) 15600
(3) 23040 (4) 17400
30. If PEAR is written a GFDN how is REAP written in this code?
(1) FDNG (2) NFDG
(3) DNGF (4) NDFG
31. If $54 + 43 = 2$, $60 + 51 = 10$, then $62 + 72 = ?$
(1) 30 (2) 18
(3) 20 (4) 9
32. If L denotes \times
M denotes \div
P denotes +
Q denotes -
then $16 P 24 M 8 Q 6 M 2 L 3 = ?$
(1) 10 (2) 9
(3) 12 (4) 11
33. In this question, from the given alternatives select the word which **cannot** be formed by using the letters of the given word.
APPROPRIATE
(1) PIRATE (2) APPROVE
(3) PROPER (4) RAPPORT
34. If FLATTER is coded as 7238859 and MOTHER is coded as 468159, then how is MAMMOTH coded?
(1) 4344681 (2) 4344651
(3) 4146481 (4) 4346481
35. If $l6 - 2 = 2$, $9 - 3 = 0$, $81 - 1 = 8$, then what is $64 - 4 = ?$
(1) 4 (2) 2
(3) 6 (4) 8

Directions (36 - 37) : In each of the following questions, select the missing number from the given responses.



- (1) 20 (3) 10
(2) 25 (4) 15

37.

10	11	15
12	12	8
4	12	10
10	5	13
18	20	?

- (1) 21 (2) 20
(3) 23 (4) 22

38. Four aeroplanes of Airforce viz, A,B,C,D, started for a demonstration flight towards east. After flying 50 km planes A and D flew towards right, planes B and C flew towards left. After 50 km, planes B and C flew towards their left, planes A and D also towards their left. In which directions are the aeroplanes A, B, D, C respectively flying now?

- (1) North, South, East, West
(2) South, North, West, East
(3) East, West, West, East
(4) West, East, West, East

39. Satish start from A and walks 2 km east upto B and turns southwards and walks 1 km upto C. At C he turns to east and walks 2 km upto D. He then turns northwards and walks 4 km to E. How far is he from his starting point?

- (1) 5km (2) 6km
(3) 3km (4) 4km

Directions (40 - 41): In each of the following questions, one/two statements are given, followed by two conclusions I and II. You have to consider the statements to be true, even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any follow from the given statement.

40. **Statements :**

Temple is a place of worship. Church is also a place of worship.

Conclusions:

- I. Hindus and Christians use the same place for worship.
II. All churches are temples.
(1) Neither conclusion I nor II follows
(2) Both conclusions I and II follow
(3) Only conclusion I follows
(4) Only conclusion II follows

41. **Statement:**

The human organism grows and develops through stimulation and action.

Conclusions:

- I. Inert human organism cannot grow and develop.
II. Human organisms do not react to stimulation and action.
(1) Neither conclusion I nor II follows
(2) Both conclusions I and II follow
(3) Only conclusion I follows
(4) Only conclusion II follows

42. If the first four letters of a term HIPPNOWADIASM are written in reverse order, the next five letters are written without changing their order and then, the remaining letters are again written in reverse order, then which letter is in the middle of the word?

- (1) O (2) W
(3) A (4) I

43. In the following letter series how many times

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do PQR occur in such way that Q is in the middle of P and R.

QMPNPQRRPONPPRP
MQROPQRRPQRRP

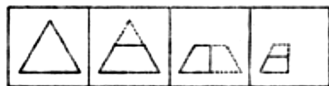
- (1) 5 (2) 6
(3) 4 (4) 3

44. Volume of a sphere is equal to the volume of a hemisphere. If the radius of the hemisphere is $3\sqrt{2}$ cm, then the radius of the sphere is equal to

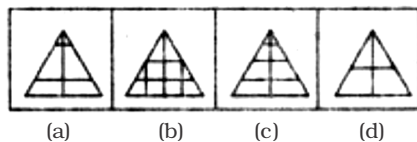
- (1) $9\sqrt{2}$ cm
(2) $6\sqrt{2}$ cm
(3) 27 cm
(4) 3 cm

45. A sheet of paper has been folded as shown by the question figures. You have to figure out from amongst the four answer figures how it will appear when opened?

Question Figures

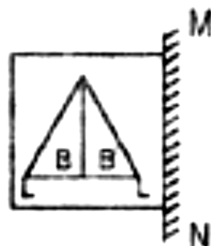


Answer Figures

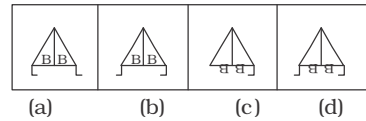


46. Which of the answer figure is exactly the mirror image of the question figure if a mirror is placed on the line MN?

Question Figure



Answer Figures

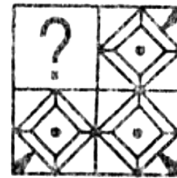


47. If SEARCH is coded as TFBSDI, how will PENCIL be coded?

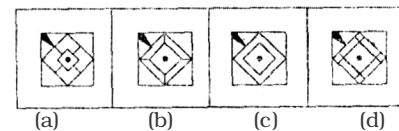
- (1) RGPEN (2) LICNEP
(3) QFODJM (4) QLMBHK

48. Which answer Figure completes the form in question figure?

Question Figure

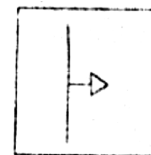


Answer Figures

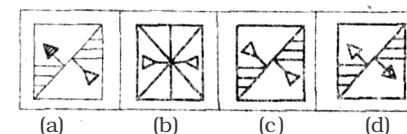


49. From the answer figures, select the one in which the question figure is hidden/embedded.

Question Figure



Answer Figures



50. A word is represented by only one set of numbers as given in anyone of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g. 'A' can be represented by 10. 33, etc and 'H' can be represented by 59. 78. etc. Similarly you have to identify the set for the word GUIDE.

Matrix I

	0	1	2	3	4
0	I	E	A	O	U
1	A	O	U	I	E
2	E	I	O	U	A
3	O	U	E	A	I
4	U	A	I	E	O

Matrix II

	5	6	7	8	9
5	F	D	B	G	H
6	B	G	H	F	D
7	D	F	G	H	B
8	G	H	D	B	F
9	H	B	F	G	D

- (1) 85, 23, 21, 87, 32
 (2) 58, 31, 12, 57, 41
 (3) 77, 13, 42, 99, 32
 (4) 66, 31, 43, 78, 14

GENERAL AWARENESS

51. The National Commission for Minorities was constituted in the year
 (a) 1990 (b) 1992
 (c) 1980 (d) 1989
52. The first Indian who was chosen as the Secretary General of Commonwealth is
 (a) Rakesh Verma
 (b) Gopalaswami
 (c) Krishna Murthy
 (d) Kamalesh SHarma
53. In which of the following systems of government is bicameralism an essential feature?
 (1) Federal system
 (2) Unitary system
 (3) Parliamentary system
 (4) Presidential system
54. Kuldip Nayer, a journalist, was appointed as a High Commissioner in
 (1) Sri Lanka (2) Australia
 (3) UK (4) Pakistan
55. Which king is referred to as Devanampiya Piyadassi (Beloved of the Gods) in the inscriptions?
 (1) Asoka (2) Harsha
 (3) Bindusara
 (4) Chandragupta Maurya
56. Socialism succeeds in achieving
 (1) higher standard of living of the people
 (2) equal distribution of income in the society.
 (3) higher individual welfare in the society
 (4) maximum social welfare in the society
57. Monopolist resorts to price discrimination depending upon the
 (1) Elasticity of supply
 (2) Elasticity of demand
 (3) Law of demand
 (4) Law of supply
58. Economic planning is an essential feature of

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- | | |
|---|--|
| <p>(1) Socialist economy
(2) Capitalist economy
(3) Mixed economy
(4) Dual economy</p> <p>59. The HYV programme in India is also called as
(1) Traditional Agriculture
(2) New Agricultural Strategy
(3) White Revolution
(4) Blue Revolution.</p> <p>60. The National Policy for Empowerment of Women was adopted in the year
(1) 2001 (2) 2005
(3) 1991 (4) 1995</p> <p>61. Ballots were first used in
(1) Australia
(2) USA
(3) Ancient Greece
(4) England</p> <p>62. The Rashtriyta Barh Ayog (RBA) is related with
(1) Droughts and Floods
(2) Poverty Alleviation
(3) Floods
(4) Disaster Management</p> <p>63. Which of the following criteria is not used for the classification of human races?
(1) Nose (2) Hair
(3) Eyes (4) Ear</p> <p>64. Railway coaches are manufactured at
(1) Jamshedpur
(2) Chittaranjan
(3) Perambur
(4) Varanasi</p> <p>65. Fertilization occurs normally in the
(1) Cervix
(2) Vagina
(3) Fallopian tube
(4) Uterus</p> <p>66. People consuming alcohol in heavy quantities generally die of
(1) liver or stomach cancer</p> | <p>(2) weakening of heart muscles leading to cardiac arrest
(3) blood cancer
(4) Cirrhosis</p> <p>67. The organisms at the base of the grazing food-chain are
(1) Carnivores (2) Decomposers
(3) Producers (4) Herbivores</p> <p>68. Who among the following was credited with the destruction of Chinalgani, a group of powerful nobles?
(1) Balban
(2) Qutb-ud-din Aibak
(3) Iltutmish
(4) Razia- Sultan</p> <p>69. Bombay was given away as dowry to the English King Charles II for marrying the Princess of
(1) France (2) Portugal
(3) Holland (4) Denmark</p> <p>70. The 'Grand Trunk Road built by Shershah connected Punjab with
(1) Agra (2) East Bengal
(3) Lahore (4) Multan</p> <p>71. Name the Maratha Saint who was a contemporary of Shivaji.
(1) Saint Eknath
(2) Saint Tukaram
(3) Saint Dhyaneswar
(4) Namdev</p> <p>72. The study of lake is called
(1) Topology
(2) Hydrology
(3) Limnology
(4) Potomology</p> <p>73. A series of lines connecting places having a quake at the same time are called
(1) Homoseismal lines
(2) Seismolines
(3) Coseismal lines
(4) Isoseismal lines</p> <p>74. 'Lumen' is the unit of
(1) Illuminance</p> |
|---|--|

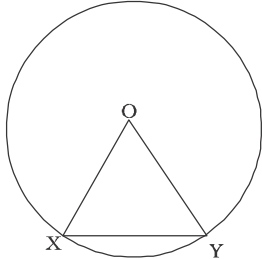
- (2) Brightness
(3) Luminous flux
(4) Luminous intensity
75. The transfer of data from a CPU to peripheral devices of computer is achieved through
(1) interfaces
(2) buffer memory
(3) modems
(4) computer ports
76. Which of the following items is not used in Local Area Networks (LANs) ?
(1) Interface Card
(2) Cable
(3) Computer (4) Modem
77. The mass of 10 moles of water is .
(1) 90 g (2) 45 g
(3) 18 g (4) 180 g
78. Vitamin A is rich in
(1) Carrot (2) Lime
(3) Beans (4) Rice
79. The high boiling point of water compared to hydrogen sulphide or hydrogen chloride is due to
(1) Dipole insulation
(2) Vander Waal's attraction
(3) Polar covalent bonding
(4) Hydrogen bonding
80. Which of the following determines the chemical properties of an element?
(1) Number of electrons
(2) Number of neutrons
(3) Number of protons
(4) All of the above
81. The Central Drug Research Institute of India is located at
(1) Madras (2) Lucknow
(3) Delhi (4) Bangalore
82. Which of the following cereals was among the first to be used by man ?
(1) Rye (2) Wheat
(3) Rarley (4) Oat
83. What of the following wheat species are being cultivated in India?
(1) Club wheat (2) Durum wheat
(3) Emmer wheat (4) Bread wheat
84. Which one of the following forces is a 'dissipative force'?
(1) Electrostatic force
(2) Magnetic force
(3) Gravitational force
(4) Frictional force
85. If a resistive wire is elongated, its resistance
(1) decreases
(2) remains constant
(3) increases
(4) All of the above
86. If a magnet has a third pole, then the third pole is called
(1) defective pole
(2) consequent pole
(3) extra pole
(4) arbitrary pole
87. How many spokes are there in the Dharmachakra of the National Flag?
(1) 14 (2) 18
(3) 22 (4) 24
88. The latest official language of the U.N. is
(1) Russian (2) Arabic
(3) Chinese (4) Spanish
89. Srikrishna Committee Report which was made public in 2011, is related to
(1) rejuvenation of higher education
(2) demand for a separate Telangana State
(3) ragging in educational institutions
(4) impeachment of Justice Dinakaran
90. The latest book "Kurukshetra to Kargil" is written by
(1) Suryanath Singh
(2) Kunal Bhardwaj
(3) Karan Singh
(4) Kuldip Singh
91. The Educational Development Index (EDI) Report., released in 2011, is led by
(1) Tamil Nadu (2) Puducherry
(3) Kerala
(4) Lakshadweep

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92. Shunglu Committee, which submitted its report in 2011, is related to
 (1) Commonwealth Games scandal
 (2) reforms in the Insurance sector
 (3) revamp of Defence management
 (4) management of Co-operative Sector
93. The 65th National Football Championship (Santosh Trophy 2011) was won by
 (1) Bangal (2) Punjab
 (3) Manipur (4) Goa
94. The organisation involved primarily with environmental planning is
 (1) CIFRI (2) ICAR
 (3) CSIR (4) NEERI
95. What would be the impact of global warming on mangrove forests?
 (1) They will grow more luxurious
 (2) Large areas of mangroves will be submerged
 (3) Their role as carbon sinks will become more important
 (4) Both (1) and (3) above
96. The sweet taste of fruits is due to
 (1) Lactose (2) Fructose
 (3) Maltose (4) Ribose
97. The most endangered Asiatic top predator on the edge of extinction is
 (1) Black Bear
 (2) Asiatic Lion (3) Siberian Tiger
 (4) Dhole
98. Analects is the sacred book of
 (1) Confucianism
 (2) Judaism
 (3) Shintoism
 (4) Taoism
99. The seat of Madhya Pradesh High Court is located at
 (1) Gwalior (2) Indore
 (3) Bhopal (4) Jabalpur
100. The brightest planet is
 (1) Venus (2) Mercury
 (3) Jupiter
 (4) Mars

QUANTITATIVE APTITUDE

101. P and Q are two points observed from the top of a building $10\sqrt{3}$ m high. If the angles of depression of the points are complementary and $PQ = 20$ m, then the distance of P from the building is
 (a) 25 m
 (b) 45 m
 (c) 30 m
 (d) 40 m
102. If A and are complementary angles, then the value of
 $\sin A \cos B + \cos A \sin B - \tan A \tan B + \sec^2 A - \cot^2 B$ is
 (a) 2 (b) 0
 (c) 0 (d) -1
103. The least value of $2\sin^2 \theta + 2\cos^2 \theta$ is
 (a) 3 (b) 5
 (c) 1 (d) 2
104. A, O, B are three points on a line segment and C is a points not lying on AOB. If $\angle AOC = 40^\circ$ and OX, OY are the internal and external bisectors of $\angle AOC$ respectively, then $\angle BOY$ is
 (a) 70° (b) 80°
 (c) 75° (d) 68°
105. If $4x = \sec \theta$ and $\frac{4}{x} = \tan \theta$ then
 $8\left(x^2 - \frac{1}{x^2}\right)$ is
 (a) $\frac{1}{16}$ (b) $\frac{1}{8}$
 (c) $\frac{1}{2}$ (d) $\frac{1}{4}$
106. If $2 - \cos^2 \theta = 3 \sin \theta \cos \theta$, $\sin \theta \neq \cos \theta$ then $\tan \theta$ is

- (a) $\frac{1}{2}$ (b) 0
(c) $\frac{2}{3}$ (d) $\frac{1}{3}$
107. If $\sin \theta + \cos \theta = \sqrt{2} \cos (90^\circ - \theta)$, then $\cot \theta$ is
(a) $\sqrt{2} + 1$ (b) 0
(c) $\sqrt{2}$ (d) $\sqrt{2} - 1$
108. If $x \sin^2 \theta + y \cos^2 \theta = \sin \theta \cos \theta$ and $x \sin \theta = y \cos \theta$, $\sin \theta \neq 0$, $\cos \theta \neq 0$, then $x^2 + y^2$ is
(a) $\frac{1}{\sqrt{2}}$ (b) $\frac{1}{2}$
(c) 1 (d) $\sqrt{2}$
109. In the following figure, O is the centre of the circle and XO is perpendicular to OY. If the area of the triangle XOY is 32, then the area of the circle is
- 
- (a) 64 (b) 256
(c) 16 (d) 32
110. The side BC of $\triangle ABC$ is produced to D. If $\angle ACD = 108^\circ$ and $\angle B = \frac{1}{2} \angle A$ then $\angle A$ is
(a) 36° (b) 72°
(c) 108° (d) 59°
111. Two circles of radii 4 cm and 9 cm respectively touch each other at a common tangent touches them at the points P and Q respectively. Then the area of a square with one side PQ, is
(a) 97 sq.cm (b) 194 sq.cm
(c) 72 sq.cm (d) 144 sq.cm
112. Two tangents are drawn from a point P to a circle at A and B. O is the centre of the circle. If $\angle AOP = 60^\circ$, then $\angle APB$ is
(a) 120° (b) 90°
(c) 60° (d) 30°
113. If each interior angle is double of each exterior angle of a regular polygon with n sides, then the value of n is
(a) 8 (b) 10
(c) 5 (d) 6
114. If the length of the side PQ of the rhombus PQRS is 6 cm and $\angle PQR = 120^\circ$, then the length of QS, in cm, is
(a) 4 (b) 6
(c) 3 (d) 5
115. The angle formed by the hour-hand and the minute-hand of a clock at 2 : 15 p.m. is
(a) $27\frac{1}{2}^\circ$ (b) 45°
(c) $22\frac{1}{2}^\circ$ (d) 30°
116. Two sides of a triangle are of length 4 cm and 10 cm. If the length of the third side is 'a' cm, then
(a) $a > 5$ (b) $6 \leq a \leq 12$
(c) $a < 6$ (d) $6 < a < 14$
117. If $x = (0.08)^2$, $y = \frac{1}{(0.08)^2}$ and $z = (1 - 0.08)^2 - 1$, then out of the following, the true relation is
(a) $y < x$ and $x = z$
(b) $x < y$ and $x = z$
(c) $y < x < z$ (d) $z < x < y$
118. In xy plane, P and Q are two points having

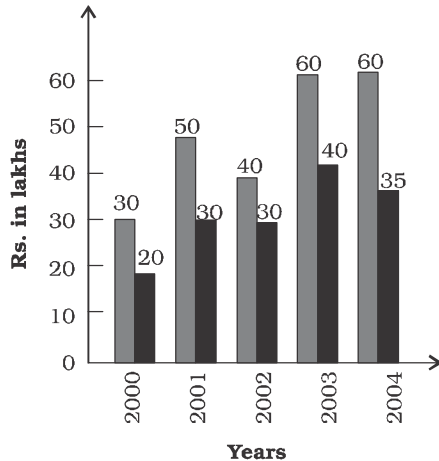
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- co-ordinates (2, 0) and (5, 4) respectively. Then the numerical value of the area of the circle with radius PQ, is
- (a) 16π (b) 32π
(c) 14π (d) 25π
119. If $x^4 + \frac{1}{x^4} = 23$, then the value of $\left(x - \frac{1}{x}\right)^2$ will be
(a) 7 (b) -7
(c) -3 (d) 3
120. The value of $\sqrt{[6 + \sqrt{6 + \sqrt{6 + \dots \text{upto } \infty}]}}$ is equal to
(a) 3 (b) 10
(c) 8 (d) 2
121. If $x + \frac{1}{x} = 3$, the value of $x^5 + \frac{1}{x^5}$ is
(a) 123 (b) 126
(c) 113 (d) 129
122. $\sec^4 \theta - \sec^2 \theta$ is equal to
(a) $\tan^2 \theta - \tan^4 \theta$
(b) $\tan^2 \theta + \tan^4 \theta$
(c) $\cos^4 \theta - \cos^2 \theta$ (d) $\cos^2 - \cos^4$
123. In $\triangle ABC$, AD is the median and $AD = \frac{1}{2} BC$. If $\angle ACD = 30^\circ$, then measure of then measure of is
(a) 90° (b) 45°
(c) 30° (d) 60°
124. If $\sqrt{6} \times \sqrt{15} = x\sqrt{10}$, then the value of x is
(a) 3 (b) ± 3
(c) $\sqrt{3}$ (d) $\sqrt{6}$
125. $3 - \frac{3 + \sqrt{5}}{4} - \frac{1}{3 + \sqrt{5}}$ is equal to
(a) 0 (b) $\frac{3}{2}$
(c) $\frac{\sqrt{5}}{2}$ (d) $\sqrt{5}$
126. If $a + b + 1 = 0$, then the value of $(a^3 + b^3 + 1 - 3ab)$ is
(a) 3 (b) 0
(c) -1 (d) 1
127. In the xy-coordinate system, if (a, b) and (a + 3, b + k) are two points on the line defined by the equation $x = 3y - 7$, then $k = ?$
(a) $\frac{7}{3}$ (b) 1
(c) 9 (d) 3
128. The average age of 4 boys, five year age was 9 years. On including a new boy, the present average age of all the five is 15 years. The present age of the new boys is
(a) 14 years (b) 6 years
(c) 15 years (d) 19 years
129. If the average of 39, 48, 51, 63, 75, 83, x and 69 is 60, then the value of x is
(a) 52 (b) 53
(c) 50 (d) 51
130. The cost of a piece of diamond varies with the square of its weight. A diamond of Rs. 5,185 value is cut into 3 pieces whose weights are in the ratio 1 : 2 : 3. Find the loss involved in the cutting.
(a) Rs. 3,068 (b) Rs. 3,008
(c) Rs. 3,175 (d) Rs. 3,168
131. A discount of 30% on the marked price of a toy reduces its selling price by Rs. 30. What is the new selling price (in Rs.)?
(a) 70 (b) 21
(c) 130 (d) 100
132. The capacities of two hemispherical vessels are 6.4 litres and 21.6 litres. The ratio of their inner radii is

- (a) 4 : 9 (b) 16 : 81
(c) $\sqrt{2} : \sqrt{3}$ (d) 2 : 3
133. Pipe A alone can fill a tank in 8 hours. Pipe B alone can fill it in 6 hours. If both the pipes are opened and after 2 hours pipe A is closed, then the other pipe will fill the tank in
- (a) 6 hours (b) $3\frac{1}{2}$ hours
(c) 4 hours (d) $2\frac{1}{2}$ hours
134. If $(a - b) = 3$, $(b - c) = 5$ and $(c - a) = 1$, then the value of $\frac{a^3 + b^3 + c^3 - 3abc}{a + b + c}$ is
- (a) 17.5 (b) 20.5
(c) 10.5 (d) 15.5
135. The population of a town is 15000. If the number of males increases by 8% and that of females by 10%, then the population would increase to 16300. Find the number of females in the town.
- (a) 4000 (b) 6000
(c) 3000 (d) 5000
136. If Rs. 5,0000 becomes Rs. 5,700 in a year's time, what will Rs. 7,000 become at the end of 5 years at the same rate of simple interest?
- (a) Rs. 10,500 (b) Rs. 11,900
(c) Rs. 12,700 (d) Rs. 7,700
137. A thief is noticed by a policeman from a distance of 200 m. The thief starts running and the policeman chases him. The thief and the policeman run at the rate of 10 km and 11 km per hour respectively. The distance (in metres) between them after 6 minutes is
- (a) 190 (b) 200
(c) 100 (d) 150
138. 'A' sells an article to 'B' at a profit of 20% and 'B' sells it to 'C' at a profit of 25%. If 'C' pays Rs. 1,200, the cost price of the article originally (in Rs.) is
- (a) 700 (b) 600
(c) 1,000 (d) 800
139. The number nearest to 75070 which is divisible by 65, is
- (a) 75070 (b) 75075
(c) 75010 (d) 75065
140. The number 20% more than 80 is
- (a) 36 (b) 30
(c) 90 (d) 96
141. A tree is broken by the wind. If the top of the tree struck the ground at an angle of 30° and at a distance of 30m from the root, then the height of the tree is
- (a) $25\sqrt{3}$ m
(b) $30\sqrt{3}$ m
(c) $15\sqrt{3}$ m
(d) $20\sqrt{3}$ m
142. If $\cos A + \cos^2 A = 1$, then $\sin^2 A + \sin^4 A$ is equal to
- (a) 1 (b) $1/2$
(c) 0 (d) -1
143. A farmer divides his herd of n cows among his four sons, so that the first son gets one-half the herd, the second one-fourth, the third son and the fourth son 7 cows. Then the value of n is
- (a) 240 (b) 100
(c) 180 (d) 140
144. By what least number should 675 be multiplied to obtain a number which is a perfect cube?
- (a) 7 (b) 8
(c) 5 (d) 6
145. The least number which when divided by 35, 45, 55 leaves the remainder 18, 28, 38 respectively is
- (a) 3448 (b) 3482
(c) 2468 (d) 3265

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Directions (146 – 150): The graph shows Income and Expenditure of a Company. Study the graph and answer the questions.



146. The expenditure from 2002 to 2003 increased by

- (a) $33\frac{1}{3}\%$ (b) 40%
(c) 10% (d) 20%

147. The income in 2002 was equal to the expenditure in the year

- (a) 2003 (b) 2004
(c) 2000 (d) 2001

148. The profit was maximum in the year

- (a) 2003 (b) 2004
(c) 2001 (d) 2002

149. The difference in profit between 2001 and 2002 is

- (a) Rs. 25 lakhs
(b) No difference
(c) Rs. 10 lakhs
(d) Rs. 20 lakhs

150. The number of years in which the income exceeds the average income is

- (a) three (b) four
(c) one (d) two

ENGLISH COMPREHENSION

Directions (151-155): In the following questions, some parts of the sentences have errors and some have none. Find out which part of a sentence has an error. If a sentence is free from error then your answer is (4), i.e. No error.

151. You do not (1)/ look as (2)/ your brother. (3)/ No error (4)

152. My elder brother (1)/ is six (2)/ foot high. (3)/ No error (4)

153. Without no proof of your guilt (1)/ the only course open to me (2)/ is to dismiss the case. (3)/ No error (4)

154. As we see it. (1)/ she appears to be unreasonable (2)/ anxious about pleasing her husband. (3)/ No error (4)

155. The scissor is (1)/ lying on (2)/ the table. (3)/ No error (4)

Directions (156-160): In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four as your answer.

156. The Union Budget is likely to be presented on February 26, two days ahead of the _____ date.

- (1) critical (2) conventional
(3) suitable (4) convenient

157. I am sorry _____ the mistake.

- (1) from (2) with
(3) for (4) at

158. He _____ her that she would pass.

- (1) insured (2) ensured
(3) assumed (4) assured

159. Your father _____ worry. I'm a very careful driver.

- (1) needn't (2) none
(3) can't (4) doesn't

160. The _____ chosen for construction of the building is in the heart of the city.

- (1) cite (2) slight
(3) sight (4) site

Directions (161-165): In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word as your answer.

161. Nexus
(1) connection (2) distance
(3) deficit (4) difference
162. Mammoth
(1) straight (2) huge
(3) wild (4) greedy
163. Hyperbole
(1) expansion (2) imitation
(3) decoration (4) exaggeration
164. Eulogy
(1) apology (2) address
(3) speech (4) praise
165. Menacingly
(1) dangerously (2) threateningly
(3) harmfully (4) hideously

Directions (166-170): In the following questions, choose the word opposite in meaning to the given word as your answer.

166. Impeccable
(1) faulty (2) tedious
(3) flashy (4) boring
167. Amalgamate
(1) separate (2) combine
(3) assimilate (4) integrate
168. Zenith
(1) climax (2) crisis
(3) acme (4) nadir
169. Influx
(1) reflex (2) deflection
(3) effluent (4) exodus
170. Orderly
(1) semitic (2) colic
(3) democratic (4) chaotic

Directions (171-175): In the following questions, four alternatives are given for the idiom/ phrase

printed in bold in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase as your answer.

171. Ram is very calculative and always has an axe to grind.
(1) has no result
(2) works for both sides
(3) has a private agenda
(4) fails to arouse interest
172. The police looked all over for him but drew a blank.
(1) did not find him
(2) put him in prison
(3) arrested him
(4) took him to court
173. On the issue of marriage, Sarita put her foot down.
(1) stood up (2) was firm
(3) got down (4) walked fast
174. His investments helped him make a killing in the stock market.
(1) lose money quickly
(2) plan a murder quickly
(3) murder someone quickly
(4) make money quickly
175. There is no gainsaying the fact that the country is in difficulties.
(1) ignoring (2) hiding
(3) forgetting (4) denying

Directions (176-180): in the following questions, a part of the sentence is printed in bold. Below are given alternatives to the bold part at (1), (2) and (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

176. Sordid and sensational books tend to vitiate 'the public taste'.
(1) divide (2) distract
(3) distort (4) No improvement
177. By studying AIDS has engaged many researchers in the last decade.
(1) Important study

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- (2) Now that the study
(3) The study of
(4) No improvement
178. His Master's thesis was highly estimated and is now being prepared for publication.
(1) was highly discussed
(2) was highly commended
(3) is highly appraised
(4) No improvement
179. No sooner had she realized her blunder than she began to take corrective measures.
(1) then she began to take
(2) than she began taking
(3) when she began to take
(4) No improvement
180. A good scholar must be precise and possess originality.
(1) must be precise and original
(2) must be possess precision and original
(3) must be precision and possess Originality
(4) No improvement

Directions (181-185): In the following questions, out of the four alternatives, choose the one which can be substituted for the given. words/ sentence.

181. One who loves books
(1) Bibliophile
(2) Bibliophagist
(3) Bibliophoebe
(4) Bibliographer
182. Speaking without preparation
(1) Deliberate (2) Fluent
(3) Loquacious (4) Extempore
183. Special trial of the Head of State by Parliament
(1) Impingement (2) Infringement
(3) Impeachment (4) Impediment
184. Someone able to use both hands with equal skill
(1) Ambivalent (2) Amphibious
(3) Ambiguous (4) Ambidextrous

185. Cure for all diseases
(1) Curable (2) Panacea
(3) Incurable (4) Curative

Directions (186-190): In the following questions, there are four different words out of which one is correctly spelt. Find the correctly spelt word.

186. (1) pleintive (2) sustein
(3) villain (4) alleince
187. (1) comissioner
(2) commissioner
(3) commistoner
(4) commissioner
188. (1) aprentice (2) advertise
(3) treatrce (4) sencitive
189. (1) suprintendent
(2) supirentendent
(3) superintendent
(4) superentendent
190. (1) symetry (2) syrnmttry
(3) symatry (4) symmetry

Direction (191-200): In the following questions, you have two brief passages with 5 questions following each passage. Read the passages carefully and choose the best answer to each question out of the four (alternatives).

Passage I (191-195)

Two years later, in November 1895, he signed his final will. He left the bulk of his fortune, amounting to about £ 1,75,00 to a trust fund administered by Swedish and Norwegian trustees. The annual interest shall be awarded as prizes to those persons who during the previous year have rendered the greatest services to mankind. The interest shall 'be divided into five equal parts - now amounting to about £ 8,000 each - one of which shall be awarded to the person who has made the most important discovery or invention in the- realm of physics, one to the person who has made the most important chemical discovery or improvement, one to the person who has made the most important physiological or medical discovery,

one to the person who has produced the most outstanding work of literature, idealistic in character, and one to the person who has done the best work for the brotherhood of nations, the abolition or reduction of standing armies, as well as for the formation or popularization of peace congress.

191. The said prize is awarded

- (1) once in 5 years
- (2) every year
- (3) once in 4 years
- (4) once in 2 years

192. Which is the prize that is referred to in the passage?

- (1) Nobel Prize
- (2) Magsaysay Award
- (3) Pulitzer Prize
- (4) Booker Prize

193. The number of prizes in the field of science are

- (1) Four
- (2) One
- (3) Three
- (4) Five

194. Total annual prize money amounts to

- (1) £ 8,000
- (2) £ 1.750,000
- (3) £ 350,000
- (4) £ 40,000

195. Prize is awarded for outstanding work in

- (1) Chemistry
- (2) Literature
- (3) Physics
- (4) All the above

Passage II (196-200)

If an opinion contrary to your own makes you angry, that is a sign that you are subconsciously aware of having no good reason for thinking, as you do. If someone maintains that two and two are five that Iceland is on the Equator, you feel pity rather than anger, unless you know so little of arithmetic or geography that his opinion shakes your own contrary conviction.

196. If someone else's opinion makes us angry, it means that

- (1) we are subconsciously aware of having no good reason for becoming angry
- (2) there may be good reasons for his opinion but we are not consciously aware of them
- (3) our own opinion is not based on good reason and we know this subconsciously
- (4) we are not consciously aware of any reason for our own opinion

197. "Your own contrary conviction" refers to

- (1) the fact that you feel pity rather than anger
- (2) The opinion that two and two are five and that Ice-land is one the Equator
- (3) The opinion that two and two are five and that Ice-land is on the Equator
- (4) The fact that you know so little about arithmetic or geography

198. Conviction means

- (1) persuasion
- (2) disbelief
- (3) strong belief
- (4) ignorance

199. The writer says if someone maintains that two and two are five you feel pity because you

- (1) have sympathy
- (2) don't agree with him
- (3) want to help the person
- (4) feel sorry for his ignorance

200. The second sentence in the passage

- (1) builds up the argument of the first sentence by restarting it from the opposite point of view
- (2) makes the main point which has only been introduced by the first sentence
- (3) simply adds, a further point to the agreement already stated in the first sentence
- (4) illustrates the point made in the first sentence

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

EXPLANATIONS

1. The relationship is $x : (2x - 4)$

$$8 \times 2 - 4 = 16 - 4 = 12$$

$$\text{Similarly, } 6 \times 2 - 4 = 12 - 4 = 8$$

2. $(1)^2 = 1$; $(3)^2 = 9 \Rightarrow 19$

$$\text{Similarly, } (2)^2 = 4; (1)^2 = 1 \Rightarrow 41$$

3. Eagle swoops down on anything. The movement of eagle is like swooping. Similarly, the movement of duck is called waddle.

$$\begin{array}{ccccc}
 A & P & P & L & E \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\
 1 & + & 16 & + & 16 & + & 12 & + & 5 = 50
 \end{array}$$

Similarly,

$$\begin{array}{cccccc}
 O & R & A & N & G & E \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\
 15 & + & 18 & + & 1 & + & 14 & + & 7 & + & 5 = 60
 \end{array}$$

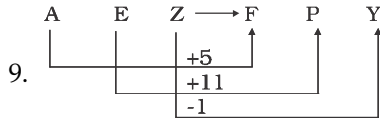
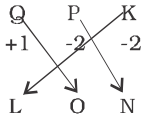
5. We pay rent for accommodation. Similarly, we pay fare for journey.

6. Fire causes smoke, smoke comes out when something is burnt in fire. Similarly, cloud causes rain.

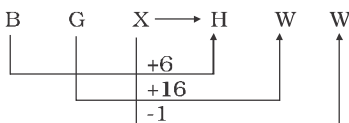
7. Grenade and gun are fire arms. Similarly, head and brain sensitive organs.

$$\begin{array}{ccc}
 T & S & H \\
 +1 & -2 & -2 \\
 \swarrow & \downarrow & \searrow \\
 I & R & Q
 \end{array}$$

Similarly,



Similarly,



10. $S \xrightarrow{-3} P$

$N \xrightarrow{-2} L$

$Z \xrightarrow{-3} W$

$T \xrightarrow{-3} Q$

11. Major, Colonel and Brigadier are different ranks in the Indian Army. Admiral is the topmost rank in the Indian Navy.

12. Expect Life Insurance Corporation, all others are insurance companies for general insurance, i.e., vehicles, property etc.

13. Except disease, all other terms denote obstruction, hindrance or interruption.

14. Except remedy, all other terms denote loss of something.

15. Socrates was a Greek philosopher. Ludwig Van Beethoven was a German Composer and Musician. Bach was also a German Composer. Wolfgang Amadeus Mozart was an Austrian Composer.

16. 112 is completely divisible by 4.

$$= \frac{112}{4} = 28$$

$$= \frac{132}{5} = 26.4;$$

$$\frac{125}{8} = 15.625;$$

$$= \frac{124}{7} = 17.71$$

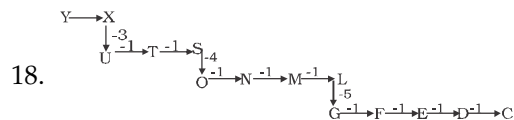
17. The difference between the two numbers in the number pair 6246 - 6296 is least.

$$6296 - 6246 = 50$$

$$7267 - 7137 = 130$$

$$4684 - 4344 = 340$$

$$5465 - 5235 = 230$$



19. $D \xrightarrow{+4} H \xrightarrow{+4} L \xrightarrow{+4} P \xrightarrow{+4} T$

$D \xrightarrow{+4} E \xrightarrow{+4} I \xrightarrow{+4} J \xrightarrow{+4} N$

20. $B \xrightarrow{+3} E \xrightarrow{+4} I \xrightarrow{+5} N \xrightarrow{+6} T \xrightarrow{+7} A$

21. $A \xrightarrow{+2} C \xrightarrow{+2} E \xrightarrow{+2} G$
 $Z \xrightarrow{-2} X \xrightarrow{-2} V \xrightarrow{-2} T$

22. $D \xrightarrow{+6} J \xrightarrow{+6} P \xrightarrow{+6} V \xrightarrow{+6} B$
 $9 \xrightarrow{\times 3} 27 \xrightarrow{\times 3} 81 \xrightarrow{\times 3} 243 \xrightarrow{\times 3} 729$
 $Y \xrightarrow{-6} S \xrightarrow{-6} M \xrightarrow{-6} G \xrightarrow{-6} A$

23. $[a] c [d] b / d [a] cb / c d a [b] / a [c] db / [d] a$

24. $9 \times 2 + 1 = 18 + 1 = 19$

$$19 \times 2 + 2 = 38 + 2 = 40$$

$$40 \times 2 + 3 = 80 + 3 = 83$$

$$83 \times 2 + 4 = 166 + 4 = 170$$

$$170 \times 2 + 5 = 340 + 5 = 345$$

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Therefore, the number 340 is wrong in the series.

25. $21 + 7 = 28$

$28 + 5 = 33$

$33 + 3 = 36$

$36 + 1 = 37$

$37 - 1 = 36$

Therefore, the number 35 is wrong in the series.

26. $5 + 8 = 13$

$13 + 16 = 29$

$29 + 32 = 61$

$61 + 64 = 125$

$125 + 128 = 253$

Therefore, the number 120 is wrong in the series.

27. $0 + 7 = 7$

$7 + 21 = 28$

$28 + 35 = 63$

$63 + 61 = 124$

$124 + 87 = 211$

Therefore, the number 215 is wrong in the series.

28. $a \nabla b \nabla c$

$\Rightarrow a < b < c$

Option (1)

$a \Delta b \phi c$

$\Rightarrow a < b \leq c$ or,

$a < b \leq c$

option (2)

$a \phi b + c$

$\Rightarrow a \leq b = c$

option (3)

$a \cap b + c \Rightarrow a > b = c$

option (4)

$a \cap b \times c \Rightarrow a > b \geq c$

29. $2 \times 3 \times 5 \times 4 = 120$

$120 \times 120 = 14400$

30. P E A R

$\downarrow \downarrow \downarrow \downarrow$

G F D N

Therefore,

R E A P

$\downarrow \downarrow \downarrow \downarrow$

N F D G

31. $5 - 4 = 1$

$4 - 3 = 1$

$1 + 1 = 2$

$6 - 2 = 4;$

$7 - 2 = 5$

$4 + 5 = 9$

32.

$L \Rightarrow \times$	$M \Rightarrow +$
$P \Rightarrow +$	$Q \Rightarrow -$

$16P 24M 8Q 6M 2L 3 = ?$

$\Rightarrow ? = 16 + 24 \div 8 - 6 \div 2 \times 3$

$\Rightarrow ? = 16 + 3 - 3 \times 3$

$\Rightarrow ? = 16 + 3 - 9 = 10$

33. There is no 'V' letter in the given word.

34. F L A T T E R

$\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$

7 2 3 8 8 5 9

M O T H E R

↓ ↓ ↓ ↓ ↓ ↓

4 6 8 1 5 9

Therefore,

M A M M O T H

↓ ↓ ↓ ↓ ↓ ↓

4 3 4 4 6 8 1

35. $16 \Rightarrow (2+2)^2 = (4)^2$

$9 \Rightarrow (3+0)^2 = (3)^2$

Similarly, 64

$\Rightarrow (4+4)^2 = (8)^2$

36. The product of two numbers in a sector is equal to the central number in the previous sector.

$3 \times 5 = 15$

$8 \times 3 = 24$

$7 \times 2 = 14$

$5 \times 3 = \boxed{15}$

$8 \times 4 = 32$

$9 \times 1 = 9$

$7 \times 4 = 28$

37. First Column

$10 + 12 + 4 + 10 = 36$

$\frac{36}{2} = 18$

= 18 (Lowermost number)

Second Column

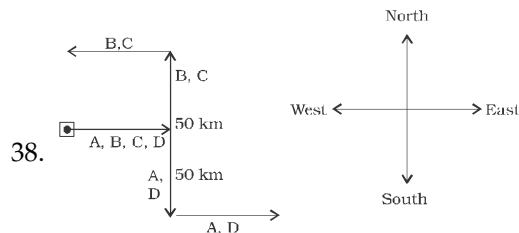
$11 + 12 + 15 + 5 = 40$

$\frac{40}{2} = 20$

Third Column

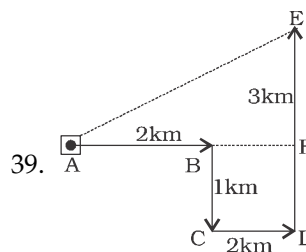
$15 + 8 + 10 + 13 = 46$

$\frac{46}{2} = \boxed{23}$



A \Rightarrow East, B \Rightarrow West,

C \Rightarrow West, D \Rightarrow East,



Required distance AE

$= \sqrt{(AF)^2 + (EF)^2}$

$= \sqrt{(4)^2 + (3)^2}$

$= \sqrt{16 + 9}$

$= \sqrt{25}$

$= 5 \text{ km}$

40. Temple and Church are place of worship. It does not imply that Hindus and Christians use the same place for worship. Church is difference temple. Therefore, neither Conclusion I nor II follows.

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41. Growth and development of human organism is a continuous process. Some changes take place in human body now and then. Therefore, neither and then. Therefore, neither Conclusion I nor II follows.

42. H I P P N O W A D I A S M
P P I H N O W A D M S A I

43. Q M P N P Q R R O P Q N O P P Q R
M Q R O P Q R P P R R P Q R P

44. Volume of sphere = $\frac{4}{3} \pi r^3$

Volume of hemisphere = $\frac{2}{3} \pi r^3$

Now,

$$\frac{4}{3} \pi r^3 = \frac{2}{3} \pi r^3$$

$$\text{or, } r^3 = \frac{2}{3} \times \frac{3}{4} \times 27 \times 2$$

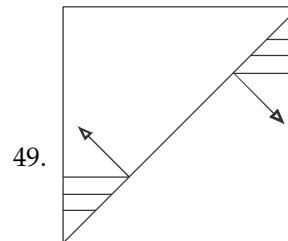
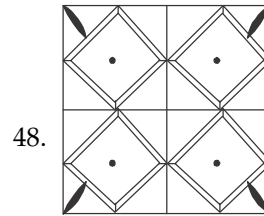
$$\therefore r = 3\text{cm}$$

47.

S	E	A	R	C	H	→	T	F	B	S	D	I

Similarly,

P	E	N	C	I	L	→	Q	F	O	D	J	M



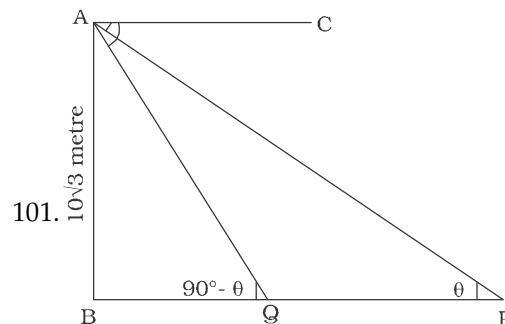
50. G ⇒ 58, 66, 77, 85, 98

U ⇒ 04, 12, 23, 31, 40

I ⇒ 00, 13, 21, 34, 42

D ⇒ 56, 69, 75, 87, 99

E ⇒ 01, 14, 20, 32, 43



AB = Building = $10\sqrt{3}$ metre

PQ = 20 metre

BQ = x metre (let)

If $\angle AQB = 90^\circ - \theta$

From $\triangle ABP$,

$$\tan \theta = \frac{AB}{BP}$$

$$= \frac{10\sqrt{3}}{x+20}$$

From $\triangle ABQ$,

$$\tan (90^\circ - \theta) = \frac{AB}{BQ}$$

$$\Rightarrow \cot \theta = \frac{10\sqrt{3}}{x}$$

By multiplying both equations,

$$\tan \theta \cdot \cot \theta = \frac{10\sqrt{3}}{x+20} \times \frac{10\sqrt{3}}{x}$$

$$\Rightarrow x^2 + 20x = 10 \times 10 \times 3$$

$$\Rightarrow x^2 + 20x - 300 = 0$$

$$\Rightarrow x^2 + 30x - 10x - 300 = 0$$

$$\Rightarrow x(x+30) - 10(x+30) = 0$$

$$\Rightarrow (x-10)(x+30) = 0$$

$$\Rightarrow x = 10$$

$$x \neq -30$$

$$\therefore BP = 10 + 20 = 30 \text{ metre}$$

102. $A + B = 90^\circ$

$$\Rightarrow A = 90^\circ - B$$

$$\Rightarrow \sin A = \sin (90^\circ - B) = \cos B$$

Similarly,

$$\Rightarrow \cos A = \sin B, \tan A = \cot B$$

$$\therefore \sin A, \cos B + \cos A, \sin B - \tan A, \tan B + \sec^2 A - \cot^2 B$$

$$= \cos^2 B + \sin^2 B - \cot B, \tan B + \sec^2 A - \tan^2 A$$

$$= 1 - 1 + 1 = 1$$

$$[\because \tan B, \cot B = 1]$$

$$\sec^2 A - \tan^2 A = 11$$

103. $2 \sin^2 \theta + 3 \cos^2 \theta = 2 \sin^2 \theta + 2 \cos^2 \theta + \cos^2 \theta$

$$= 2 (\sin^2 \theta + \cos^2 \theta) + \cos^2 \theta$$

$$= 2 + \cos^2 \theta$$

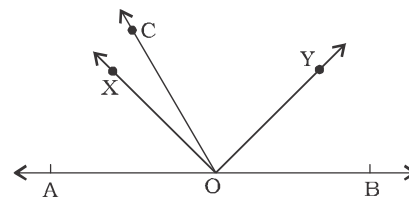
$$\therefore \text{Least value} = 2 + 0 = 2$$

$$[\because \cos^2 \theta \geq 0]$$

(i)

(ii)

104.



OY is the bisector of $\angle AOC = 2 \angle COX$.

$$\therefore \angle BOC = 2 \angle COY$$

$$\therefore \angle AOC + \angle BOC$$

$$= 2 \angle COY + 2 \angle COX = 180^\circ$$

$$\Rightarrow 2(\angle COX + \angle COY) = 180^\circ$$

$$\Rightarrow \angle XOY = 90^\circ$$

$$\therefore \angle AOX + \angle XOY + \angle BOY = 180^\circ$$

$$\therefore = 180^\circ - 90^\circ - 20^\circ = 70^\circ$$

105. $4x = \sec \theta$

$$\Rightarrow x = \frac{\sec \theta}{4}$$

$$\text{Again, } \frac{4}{x} = \tan \theta$$

$$\Rightarrow \frac{1}{x} = \frac{\tan \theta}{4}$$

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$$\begin{aligned} \therefore 8 \left(x^2 - \frac{1}{x^2} \right) \\ = 8 \left(\frac{\sec^2 \theta}{16} - \frac{\tan^2 \theta}{16} \right) \\ = \frac{8}{16} (\sec^2 \theta - \tan^2 \theta) = \frac{1}{2} \end{aligned}$$

106. $2 - \cos^2 \theta = 3 \sin \theta \cdot \cos \theta$

Dividing by $\cos^2 \theta$

$$\begin{aligned} \frac{2}{\cos^2 \theta} - 1 &= \frac{3 \sin \theta \cdot \cos \theta}{\cos^2 \theta} \\ \Rightarrow 2 \sec^2 \theta - 1 &= 3 \tan \theta \\ \Rightarrow 2(1 + \tan^2 \theta) - 1 &= 3 \tan \theta \\ \Rightarrow 2 \tan^2 \theta + 2 - 1 &= 3 \tan \theta \\ \Rightarrow 2 \tan^2 \theta - 3 \tan \theta + 1 &= 0 \\ \Rightarrow 2 \tan^2 \theta - 2 \tan \theta - \tan \theta + 1 &= 0 \\ \Rightarrow 2 \tan \theta (\tan \theta - 1) &= 0 \end{aligned}$$

$$\Rightarrow \tan \theta = \frac{1}{2} \text{ or } 1$$

107. $\sin \theta + \cos \theta$

$$= \sqrt{2} \cos(90^\circ - \theta)$$

$$\Rightarrow \sin \theta + \cos \theta = \sqrt{2} \sin \theta$$

On squaring,

$$\cos^2 \theta + \sin^2 \theta + 2 \cos \theta \cdot \sin \theta$$

$$= 2 \sin^2 \theta$$

$$\Rightarrow \cos^2 \theta = \sin^2 \theta - 2 \cos \theta \cdot \sin \theta$$

On dividing by $\sin^2 \theta$

$$\Rightarrow \cot^2 \theta + 2 \cot \theta - 1 = 0$$

$$\therefore \cot \theta = \frac{-2 \pm \sqrt{4 + 4}}{2}$$

$$= \frac{-2 \pm 2\sqrt{2}}{2} = \sqrt{2} - 1$$

$$\text{or } -(\sqrt{2} - 1)$$

108. $x \sin^3 \theta + y \cos^3 \theta = \sin \theta \cdot \cos \theta$

$$\Rightarrow (x \sin \theta) \cdot \sin^2 \theta + (y \cos \theta)$$

$$\cos^2 \theta = \sin \theta \cdot \cos \theta$$

$$\Rightarrow x \sin \theta \cdot \sin^2 \theta + x \sin \theta \cdot \cos^2 \theta$$

$$= \sin \theta \cdot \cos \theta$$

$$\Rightarrow x \sin \theta (\sin^2 \theta + \cos^2 \theta)$$

$$= \sin \theta \cdot \cos \theta$$

$$\Rightarrow x = \cos \theta$$

$$\therefore \sin \theta \cdot \cos \theta$$

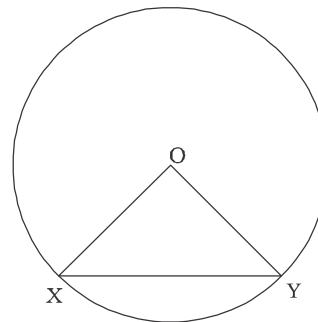
$$\Rightarrow \cos \theta \cdot \sin \theta = y \cos \theta$$

$$\Rightarrow y = \sin \theta$$

$$\therefore x^2 + y^2 = \cos^2 \theta + \sin^2 \theta = 1$$

109. $\angle XOY = 90^\circ : OX = OY = \text{radius } (r)$

$\therefore \triangle XOY$ is a right angled triangle.

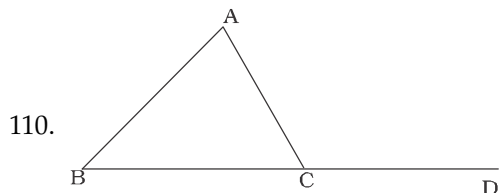


$$\therefore \frac{1}{2} \times (OX) \times (OY) = 32$$

$$\Rightarrow r^2 = 2 \times 32 = 64$$

$$\therefore r = \sqrt{64} = 8$$

$$\therefore \text{Area of circle} = \pi r^2$$

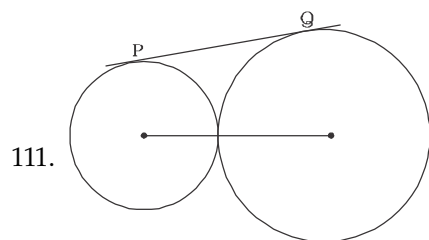


$$\angle ACD = \angle ABC = \angle BAC$$

$$\Rightarrow 108^\circ = \frac{\angle A}{2} + \angle A$$

$$\Rightarrow \frac{3\angle A}{2} = 180^\circ$$

$$\Rightarrow \angle A = \frac{108 \times 2}{3} = 72^\circ$$



$$r_1 + r_2 = 13 \text{ cm}$$

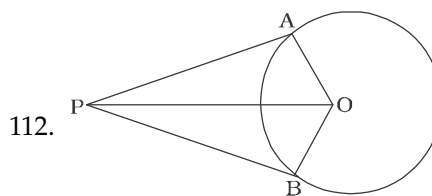
$$r_2 - r_1 = 9 - 4 = 5 \text{ cm}$$

PQ

$$= \sqrt{\left(\frac{\text{distance between}}{\text{centre}}\right)^2 - (r_2 - r_1)^2}$$

$$= \sqrt{(13^2 - 5^2)} = 12 \text{ cm}$$

$$\therefore \text{Area of square} = 12 \times 12 = 144 \text{ sq.cm}$$



In right Δ s OAP and OPB.

$$AP = PB, OA = OB$$

$$OP = OP$$

$$\therefore \Delta OAP = \Delta OPB$$

$$\therefore \angle AOP = \angle POB \text{ and } \angle APO$$

$$= \angle OPB$$

From ΔAOP

$$\angle APO = 180^\circ - 90^\circ - 60^\circ = 30^\circ$$

$$\therefore \angle APB = 2 \times 30 = 60^\circ$$

113.
$$\frac{(2n - 4) \times 90^\circ}{n} = \frac{300^\circ}{n} \times 2$$

$$\Rightarrow (2n - 4) \times 90^\circ = 2 \times 360^\circ$$

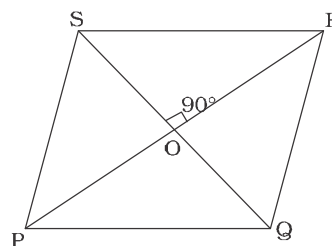
$$\Rightarrow 2n - 4 = 8 = 2n = 12$$

$$\Rightarrow n = 6$$

114.
$$\angle PQO = \frac{1}{2} \angle PQR = 60^\circ$$

From ΔPOQ ,

$$\angle OPQ = 180^\circ - 90^\circ - 60^\circ = 30^\circ$$



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$$\sin OPQ = \frac{OQ}{PQ}$$

$$\Rightarrow OQ = PQ \sin 30^\circ$$

$$\Rightarrow 6 \times \frac{1}{2} = 3$$

$$\therefore QS = 2 \times 3 = 6 \text{ cm}$$

115. Angle traced by hour hand in an hour = 30°

$$\therefore \text{Angle traced in } 2\frac{1}{4} \text{ i.e., } \frac{9}{4} \text{ hours}$$

$$= \frac{9}{4} \times 30^\circ = \frac{135^\circ}{2}$$

Angle traced by minute hand in 60 minutes = 360°

$$\therefore \text{Angle traced in 15 minutes} = \frac{360}{60} \times 15 = 90^\circ$$

$$\therefore \text{Required angle} = 90^\circ - \frac{135^\circ}{2}$$

$$= \frac{45}{2} = 22\frac{1}{2}^\circ$$

116. The sum of any two sides of a triangle is greater than third side and their difference is less than third side.

$$\therefore a + 4 > 10 \Rightarrow a > 10 - 4$$

$$\therefore a > 6$$

$$\text{Again, } a - 4 < 10 \Rightarrow a < 14$$

$$\therefore 6 < a < 14$$

117. $x = (0.08)^2,$

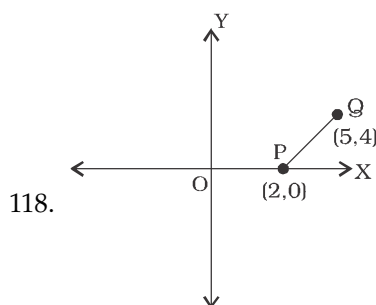
$$y = \frac{1}{(0.08)^2} = \frac{10000}{64} = 156.25$$

$$z = (1 - 0.08)^2 - 1$$

$$= 1 + (0.08)^2 - 2 \times 0.08 = -1$$

$$= (0.08)^2 - 2 - 2 \times 0.08$$

Clearly, $z < x < y$



$$PQ = \sqrt{(5-2)^2 + (4-0)^2}$$

$$= \sqrt{9+16} = 5$$

$$\therefore \text{Area of circle} = \pi r^2$$

$$25\pi \text{ sq. units}$$

119. $x^4 + \frac{1}{x^4} = 23$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 - 2 = 23$$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 = 23 + 2 = 25$$

$$\therefore x^2 + \frac{1}{x^2} = 5$$

$$\therefore \left(x + \frac{1}{x}\right)^2 = x^2 + \frac{1}{x^2} - 2$$

$$= 5 - 2 = 3$$

120. $x = \sqrt{6 + \sqrt{6 + \sqrt{6 + \dots \infty}}}$

On squaring,

$$x^2 = 6 + \sqrt{6 + \sqrt{6 + \dots \infty}}$$

$$\Rightarrow x^2 = 6 + x$$

$$\Rightarrow x^2 - 3x + 2x - 6 = 0$$

$$\Rightarrow x(x - 3) + 2(x - 3) = 0$$

$$\Rightarrow (x - 3)(x + 2) = 0$$

$$\Rightarrow x = 3 \text{ because } x \neq -2$$

$$121. \quad x + \frac{1}{x} = 3$$

On squaring,

$$\left(x + \frac{1}{x}\right)^2 = 9$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 9 - 2 = 7$$

$$\text{Again, } \left(x + \frac{1}{x}\right)^3 = 27$$

$$\Rightarrow x^3 + \frac{1}{x^3} + 3\left(x + \frac{1}{x}\right) = 27$$

$$\Rightarrow x^3 + \frac{1}{x^3} = 27 - 3 \times 3 = 18$$

$$\therefore \left(x^2 + \frac{1}{x^2}\right)\left(x^3 + \frac{1}{x^3}\right)$$

$$= 7 \times 18$$

$$\Rightarrow x^5 + \frac{1}{x^5} + \left(x + \frac{1}{x}\right) = 126$$

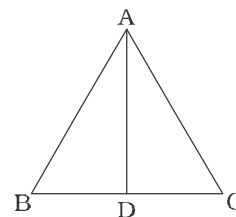
$$\Rightarrow x^5 + \frac{1}{x^5} = 126 - 3 = 123$$

$$122. \quad \sec^4 \theta - \sec^2 \theta$$

$$= \sec^2 \theta (\sec^2 \theta - 1)$$

$$= (1 + \tan^2 \theta)(1 + \tan^2 \theta - 1)$$

$$= \tan^2 \theta + \tan^2 \theta$$



123.

$$BD = DC = AD$$

$$\angle BAD = 30^\circ$$

From $\triangle ABD$,

$$\angle BAD = 30^\circ$$

$$\therefore \angle ABD = \angle BAD = 30^\circ$$

$$\therefore \angle ADB = 180^\circ - 2 \times 30^\circ = 120^\circ$$

$$\therefore \angle ADC = 180^\circ - 120^\circ = 60^\circ$$

$$\therefore AD = DC$$

$$\Rightarrow \angle DAC = \angle ACD = 60^\circ$$

$$124. \quad \sqrt{6} \times \sqrt{15} = x\sqrt{10}$$

$$\Rightarrow \sqrt{2 \times 3} \times \sqrt{3 \times 5} = x\sqrt{10}$$

$$\Rightarrow \sqrt{2} \times \sqrt{5} \times 3 = x\sqrt{10}$$

$$\Rightarrow 3\sqrt{10} = x\sqrt{10}$$

$$\Rightarrow x = 3$$

$$125. \quad \frac{1}{3 + \sqrt{5}} = \frac{3 - \sqrt{5}}{(3 + \sqrt{5})(3 - \sqrt{5})}$$

$$= \frac{\sqrt{3 - \sqrt{5}}}{9 - 5} = \frac{3 - \sqrt{5}}{4}$$

$$\therefore 3 - \frac{3 + \sqrt{5}}{4} - \frac{3 - \sqrt{5}}{4}$$

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$$= \frac{12 - 3 - \sqrt{5} - 3 + \sqrt{5}}{4}$$

$$= \frac{6}{4} = \frac{3}{2}$$

126. If $a + b + c = 9$

$$\text{then } a^3 + b^3 + c^3 - 3abc = 0$$

127. Points (a, b) and $[(a + 3), (b + k)]$ will satisfy the equation

$$x = 3y + 7 = 0$$

$$\therefore a - 3b + 7 = 0$$

$$\text{and } a + 3b + 7 = 0$$

$$\Rightarrow a + 3 - 3b - 3k + 7 = 0$$

$$\Rightarrow a - 3b + 7 + 3 - 3k = 0$$

$$\Rightarrow 3 - 3k = 0$$

$$\Rightarrow 3k = 3$$

$$\Rightarrow k = \frac{3}{3} = 1 \quad [\because a - 3b + 7 = 0]$$

128. Sum of the present ages of four boys

$$= 9 \times 4 + 20 = 56 \text{ years}$$

Sum of the present ages of five boys

$$= 15 \times 5 = 75 \text{ years}$$

\therefore Present age of new boys

$$= 75 - 56 = 19 \text{ years}$$

129. $39 + 48 + 51 + 63 + 75 + 83 + x + 69 = 60 \times 8$

$$\Rightarrow 428 + x = 480$$

$$\Rightarrow x = 480 - 428 = 52$$

130. If the weight of a piece of diamond be $6x$ units, then Original price $\alpha(6x)^2 = 36k^2$

$$\therefore 36kx^2 = 5184 \quad (i)$$

Again,

$$\text{New price} = k(x^2 + 4x^2 + 9x^2)$$

$$= 14kx^2$$

$$= \frac{14 \times 5184}{36} = \text{Rs. } 2016$$

$$\therefore \text{Loss} = 5184 - 2016$$

$$= \text{Rs. } 3168$$

131. $\therefore 30\% = \text{Rs. } 30$

$$\therefore 100\% = \text{Rs. } 100$$

$$\therefore \text{New S.P} = 100 - 30$$

$$= \text{Rs. } 70$$

$$132. \frac{\frac{2}{3}\pi r_1^3}{\frac{2}{3}\pi r_2^3} = \frac{6.4}{21.6}$$

$$\Rightarrow \frac{r_1^3}{r_2^3} = \frac{64}{216} = \left(\frac{4}{6}\right)^3 = \left(\frac{2}{3}\right)^3$$

$$\Rightarrow \frac{r_1}{r_2} = \frac{2}{3}$$

133. Part of the tank filled by both pipes in two hours

$$= 2\left(\frac{1}{8} + \frac{1}{6}\right)$$

$$= 2\left(\frac{3+4}{24}\right) = \frac{7}{12}$$

$$\text{Remaining part} = 1 - \frac{7}{12} = \frac{5}{12}$$

Time taken by B in filling the remaining part

$$= \frac{5}{12} \times 6 = \frac{5}{2} = 2\frac{1}{2} \text{ hours}$$

134. $a^3 + b^3 + c^3 - 3abc$

$$= (a + b + c)$$

$$(a^2 + b^2 + c^2 - ab - bc - ac)$$

$$= \frac{1}{2}(a+b+c)(2a^2+2b^2+2c^2-2ab-2bc-2ac)$$

$$= \frac{1}{2}(a+b+c)[(a-b)^2+(b-c)^2+(c-a)^2]$$

$$\therefore \frac{a^3+b^3+c^3-3abc}{a+b+c}$$

$$= \frac{1}{2}[(a-b)^2+(b-c)^2+(c-a)^2]$$

$$= \frac{1}{2}(9+25+1)$$

$$= \frac{35}{2} = 17.5$$

135. If the number of females be x , then, number of males = $15000 - x$

$$\therefore x \times \frac{10}{100} + (15000 - x) \times \frac{8}{100}$$

$$= 16300 - 15000$$

$$\Rightarrow 10x + 120000 - 8x$$

$$= 1300 \times 100$$

$$\Rightarrow 2x = 130000 - 120000$$

$$= 10000$$

$$\Rightarrow x = 5000$$

136. Interest = $57000 - 5000$

$$= \text{Rs. } 700$$

$$\therefore \text{Rate} = \frac{700 \times 100}{5000 \times 1} = 14\%$$

Case II,

Interest

$$= \frac{\text{Principal} \times \text{Time} \times \text{Rate}}{100}$$

$$= \frac{7000 \times 5 \times 14}{100} = \text{Rs. } 4900$$

$$\text{Amount} = 7000 + 4900$$

$$\text{Rs. } 11900$$

137. Relative profit percent

$$= \left(20 + 25 + \frac{20 \times 25}{100} \right)$$

$$= 50\%$$

\therefore Original cost price

$$= \frac{100}{150} \times 1200 = \text{Rs. } 800$$

139. 65)175070)1154

$$\underline{65}$$

$$\underline{100}$$

$$\underline{65}$$

$$\underline{357}$$

$$\underline{325}$$

$$\underline{320}$$

$$\underline{260}$$

$$\underline{60}$$

\therefore Required number

$$= 75070 + (65 - 60) = 75075$$

140. Required number

$$= \frac{50 \times 120}{100} = 96$$

141. AB = tree

BC = broken part

$\therefore BC = CD$

AD = 30 metre

From $\triangle ACD$,

$$\tan 30^\circ = \frac{AC}{AD}$$

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$$\Rightarrow AC \vee = AD \times \frac{1}{\sqrt{3}}$$

$$= \frac{30}{3} = 10\sqrt{3} \text{ metre}$$

$$CD = AC \sin 30^\circ$$

$$10\sqrt{3} \times \frac{1}{2} = 5\sqrt{3} = 15\sqrt{3} \text{ metre}$$

$$142. \cos A = 1 - \cos^2 A = \sin^2 A$$

$$\therefore \sin^2 A + \sin^4 A = \sin^2 A = \cos^2 A = 1$$

143. According to the question,

$$\frac{n}{2} + \frac{n}{4} + \frac{n}{5} + 7 = 7$$

$$\Rightarrow \frac{10n + 5n + 4n + 7}{20} = n$$

$$\Rightarrow \frac{19n}{20} + 7 = n$$

$$\Rightarrow n = \frac{19n}{20} = 7$$

$$\Rightarrow \frac{n}{20} = 7$$

$$\Rightarrow n = 20 \times 7 = 140$$

$$144. 675 = 5 \times 5 \times 3 \times 3$$

$$= 3^2 \times 5^2$$

\therefore Required number

$$= 3465 - 17 = 3448$$

146. Required percentage increase

$$= \frac{40 - 30}{30} \times 100 = \frac{100}{3}$$

$$= 33\frac{1}{3} \%$$

147. Income of company in 2002

= Rs. 40 lakhs

Expenditure of company in

2003 = Rs. 40 lakhs

148. Profit of company in 2004

= Rs. 25 lakhs

149. Required difference

$$20 - 10 = \text{Rs. 10 lakhs}$$

150. Average income of company

$$= \frac{30 + 50 + 40 + 60 + 60}{5}$$

$$= \frac{240}{5} = \text{Rs. 48 lakhs}$$

The incomes of company in years 2001, 2003, and 2004 were greater than Rs. 48 lakhs.

SOLVED PAPER

SSC COMBINED GRADUATE LEVEL

PRELIM EXAM

Held on: 19.06.2011 (First Sitting)

PART-A: GENERAL INTELLIGENCE & REASONING

Directions (1-9): In each of the following questions select the related letters/word/number from the given alternatives.

1. CFIL : ORUX :: GDJM : ?
(a) HJLN (b) NQST
(c) PSVY (d) RTVX
2. BEHK : YVSP :: DGJM : ?
(a) JGDA (b) ROLI
(c) WTQN (d) ZWTQ
3. 24 : 60 :: 120 : ?
(a) 160 (b) 220
(c) 300 (d) 108
4. 392 : 28 :: 722 : ?
(a) 18 (b) 28
(c) 38 (d) 48
5. 123 : 36 :: 221 : ?
(a) 52 (b) 69
(c) 72 (d) 25
6. Timid : Ass :: Cunning : ?
(a) Ant (b) Fox
(c) Rabbit (d) Horse
7. Ecstasy : Gloom :: ?
(a) Congratulations : Occasion
(b) Diligent : Successful
(c) Measure : Scale
(d) Humiliation : Exaltation

8. Architect : Building :: Sculptor : ?
(a) Museum (b) Stone
(c) Chisel (d) Statue
9. MKQO : LNPR :: ? XVTZ
(a) YSUW (b) SVWY
(c) VTWY (d) WYTS

Directions (10-15): In each of the following questions, find the odd number/letters/word from the given alternatives.

10. (a) PQXZ (b) BCQN
(c) ABDF (d) MNPR
11. (a) ABYZ (b) CDWX
(c) EFUV (d) GHTV
12. (a) 626 (b) 841
(c) 962 (d) 1090
13. (a) 5720 (b) 6710
(c) 2640 (d) 4270
14. (a) Swimming (b) Sailing
(c) Dividing (d) Driving
15. (a) Perception (b) Discernment
(c) Penetration (d) Insinuation

Directions: In the following question from among the given alternative select the one in which the set of numbers is most like the set of number given in the questions.

Give Set: (4, 25, 81)

16. (a) (4, 36, 79) (b) (9, 48, 81)
(c) (16, 64, 100) (d) (9, 49, 143)

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17. In the following question, number of letters are skipped in between by a particular rule. Which of the following series observes the rule?
- (a) BAFHTU (b) ACEGJL
 (c) ACFJOU (d) ADFHJL

Directions: In the following question, which one of the given response would be a meaningful order of the following?

18. (1) Ocean (2) Rivulet
 (3) Sea (4) Glacier
 (5) River
 (a) 5,2,3,1,4 (b) 4,2,5,3,1
 (c) 5,2,3,4,1 (d) 4,2,1,3,5

Directions: Arrange the following words as per order in the dictionary.

19. (1) Preposition
 (2) Preperatively
 (3) Preposterous
 (4) Preponderate
 (5) Prepossess
 (a) 2,4,1,5,3 (b) 1,5,2,4,3
 (c) 5,4,2,3,1 (d) 4,2,5,1,3
20. Which one of set of letters when sequentially placed at the gaps in the given letter series shall complete it?
 Ac__cab__baca__aba__aca__
 (a) acbcc (b) aacbc
 (c) babbb (d) bcbba

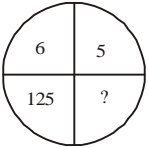
Directions (21-24): In each of the following questions, a series is given, with one/two term(s) missing. Choose the correct alternative from the given ones that will complete the series.

21. _?_DREQ, GUHT, JXKW
 (a) EFRS (b) TGSF
 (c) JWVI (d) AOBN
22. 56, 90, 132, 184, 248, __?__
 (a) 368 (b) 316
 (c) 362 (d) 326

23. 0, 4, 8, 24, 64, 176, __?__
 (a) 180 (b) 480
 (c) 280 (d) 300
24. WTPMIFB __?__ __?__
 (a) ZV (b) XU
 (c) YU (d) YV
25. Mrs. Sushella celebrated her wedding anniversary on Tuesday, 30th September 1997. When will she celebrate her next wedding anniversary on the same day?
 (a) 30 September 2003
 (b) 30 September 2004
 (c) 30 September 2002
 (d) 30 October 2003
26. A clock gains five minutes every hour. What will be the angle traversed by the second hand in one minute?
 (a) 360° (b) 360.5°
 (c) 390° (d) 380°
27. B is twice as odd as A but twice younger than F.C is half the age of A but is twice older than D. Who is the second oldest?
 (a) B (b) F
 (c) D (d) C
28. A two member committee comprising of one male and one female member is to be constituted out of five males and three females. Amongst the females, Ms. A refuses to be a member of the committee in which Mr. B is taken as the member. In how many different ways can the committee be constituted?
 (a) 11 (b) 12
 (c) 13 (d) 14
29. Find the wrong number in the series.
 6, 12, 21, 32, 45, 60
 (a) 6 (b) 12
 (c) 21 (d) 32
30. Ramesh ranks 13th in a class of 33 students. There are 5 students below Suresh rankwise. How many students are there between Ramesh and Suresh?
 (a) 12 (b) 14
 (c) 15 (d) 16

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31. Naresh's age is 4 years less than twice the age of his brother. Which of the following represents the equation to find his age?
(a) $2x + 4$ (b) $4x + 2$
(c) $x - 4$ (d) $2x - 4$
32. Suresh's sister is the wife of Ram. Ram is Rani's brother. Ram's father is Madhur. Sheetal is Ram's grandmother. Rema is Sheetal's daughter-in-law. Rema is Sheetal's daughter-in-law. Rohit is Rani's brother's son. Who is Rohit to Suresh?
(a) Brother-in-law (b) Son
(c) Brother (d) Nephew
33. In a survey, 70% of those surveyed owned a car and 75% of those surveyed owned a TV. If 55% owned both a car and a TV, what percent of those surveyed did not own either a car or a TV?
(a) 25% (b) 20%
(c) 10% (d) 5%
34. If DANCE is coded as GXQZH then how will RIGHT be coded?
(a) UFJEW (b) SGKFX
(c) UFJWE (d) UFWJE
35. If LOSE is coded as 1357 and GAIN is coded as 2468, what do the figures 84615 stand for?
(a) NAILS (b) SNAIL
(c) LANES (d) SLAIN
36. A statement is given followed by four alternative arguments. Select the alternative which is most appropriate.
Statements:
Is it necessary that education should be job oriented?
Arguments:
I. Yes, the aim of education is to prepare person for earning.
II. Yes, educated person should stand on his own feet after completion of education.
III. No, education should be for sake of knowledge only.
IV. No, one may take up agriculture where education is not necessary.
- (a) Only I and II arguments are strong
(b) Only III and IV argument are strong
(c) Only I argument is strong
(d) Only I and III arguments are strong
37. A man started walking West. He turned right, then right again and finally turned left. Towards which direction was he walking now?
(a) North (b) South
(c) West (d) East
38. Sudha travels 8 km to the South. Then she turns to the right and walks 4 km. Then again she turns to her right and moves 8 km forward. How many km away is she from the starting point?
(a) 7 (b) 6
(c) 4 (d) 8
39. From the given alternative words, select the word which *cannot* be formed using the letters of the given words: 'COMPREHENSION'
(a) MUTUAL (b) LIMITATION
(c) ONION (d) PREACH
40. From the given alternative words, select the word which can be formed using the letters of the given word: 'MULTIPLICATION'
(a) MUTUAL (b) LIMITATION
(c) APPLICATION (d) NOTION
- Directions (41-42):** In each of the following questions, select the missing number from the given response.
41. 
- (a) 127 (b) 31
(c) 217 (d) 328

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42.

2	1	2
21	22	?
1	2	5
20	23	43

- (a) 40 (b) 48
(c) 50 (d) 36

43. If '-' stands for division '+ ' stands for subtraction, '÷' stands for multiplication, 'x' stands for addition, then which one of the following equations is correct?

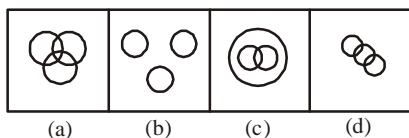
- (a) $70 - 2 + 4 \div 5 \times 6 = 44$
(b) $70 - 2 + 4 \div 5 \times 6 = 21$
(c) $70 - 2 + 4 \div 5 \times 6 = 341$
(d) $70 - 2 + 4 \div 5 \times 6 = 36$

44. The school result is increasing year after year. Forecast the result of 2012 from the following information.

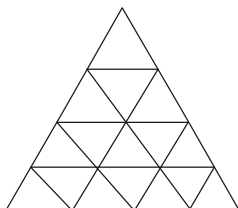
Year	2006	2007	2008	2009	2010	2011	2012
Result	34.25%	36.75%	39.75%	43.25%	47.25%	51.75%	?

- (a) 51.75% (b) 56.75%
(c) 48.00% (d) 57.25%

45. Which diagram correctly represents the relationship between politicians, poets and women?



46. How many triangles are there in the following figures?



- (a) 29 (b) 27
(c) 23 (d) 30

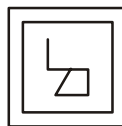
47. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

If $324 \times 289 = 35$, $441 \times 484 = 43$,
 $625 \times 400 = 45$, find the value of 256×729 .

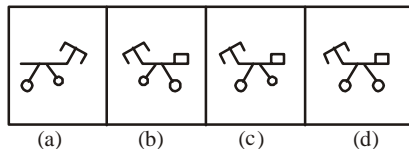
- (a) 33 (b) 35
(c) 43 (d) 34

Directions: From the given answer figures, select the one in which the question figures is hidden/embedded.

48. Question Figure:



Answer figures:

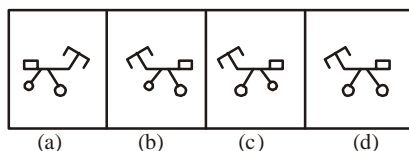


Directions: If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

49. Question Figure:



Answer figures:



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PART – B
GENERAL AWARENESS

51. In the budget for 2011-2012, the fiscal deficit (% of GDP) for 2011-2012 has been projected at
(a) 5.1 (b) 5.0
(c) 4.6 (d) 3.4
52. Which was described by Dr. B.R. Ambedkar as the 'heart and soul' of the Constitution?
(a) Right to Equality
(b) Right against Exploitation
(c) Right to Constitutional Remedies
(d) Rights to Freedom of Religion
53. Which is not the concern of the local government?
(a) Public Health
(b) Sanitation
(c) Law and order
(d) Public Utility Services
54. In India, the concept of single citizenship is adopted from
(a) England (b) U.S.A.
(c) Canada (d) France
55. Who had proposed partyless democracy in India?
(a) Jaya Prakash Narayan
(b) Mahatma Gandhi
(c) Vinoba Bhave
(d) S.A. Dange
56. Disinvestment in Public Sector is called
(a) Liberalisation
(b) Globalisation
(c) Industrialisation
(d) Privatisation
57. 'Darwin finches' refers to a group of
(a) Fishes (b) Lizards
(c) Birds (d) Amphibians
58. An individual's actual standard of living can be assessed by
(a) Gross National Income
(b) Net National Income
(c) Per Capita Income
(d) Disposable Personal Income
59. As announced by the Finance Minister in his Budget speech on 28th February 2011, with a view to assist States in modernising their stamp and registration administration, E-stamping is expected to be rolled out in all the districts of different States in a period of
(a) one year (b) two year
(c) three year (d) five year
60. Which Sikh Guru called himself the 'Sachcha Badshah'?
(a) Guru Gobind Singh
(b) Guru Hargovind
(c) Guru Tegh Bahadur
(d) Guru Arjun Dev
61. The Civil Disobedience Movement was launched by Mahatma Gandhi in
(a) 1928 (b) 1930
(c) 1931 (d) 1922
62. What is the maximum strength prescribed for State Legislative Assemblies?
(a) 350 (b) 600
(c) 500 (d) 750
63. Fa-hien visited India during the reign of
(a) Chandragupta II
(b) Samudragupta
(c) Ramagupta
(d) Kumaragupta
64. At which place in Bengal was the East India Company given permission to trade and build a factory by the Mughals in 1651?
(a) Calcutta
(b) Cassim Bazar
(c) Singur
(d) Burdwan
65. Diu is an island off
(a) Daman
(b) Goa
(c) Gujarat
(d) Maharashtra
66. Which from the following is a land-locked sea?
(a) Red Sea (b) Timor Sea
(c) North Sea
(d) Aral Sea

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| <p>67. Shivasamudram Falls is found in the course of river
(a) Krishna (b) Godavari
(c) Cauvery (d) Mahanandi</p> <p>68. Who gave the slogan "Inquilab Zindabad"?
(a) Chandrashekhar Azad
(b) Subhash Chandra Bose
(c) Bhagat Singh
(d) Iqbal</p> <p>69. The position of India Railways network in the world is
(a) second (b) third
(c) fourth (d) fifth</p> <p>70. The oldest international airline is
(a) Dutch. KLM
(b) Air Canada
(c) Qantas Airways
(d) Air Sahara</p> <p>71. Which of the following can be used to absorb neutrons to control the chain reaction during nuclear fission?
(a) Boron (b) Heavy water
(c) Uranium (d) Plutonium</p> <p>72. Hydrogen bomb is based on the principle of
(a) controlled fission reaction
(b) uncontrolled fission reaction
(c) controlled fusion reaction
(d) uncontrolled fusion reaction</p> <p>73. Troposphere is the hottest part of the atmosphere because
(a) it is closest to the Sun
(b) there are charged particles in it
(c) it is heated by the Earth's surface
(d) heat is generated in it</p> <p>74. The outermost layer of the Sun is called
(a) Chromosphere
(b) Photosphere
(c) Corona
(d) Lithosphere</p> <p>75. Where was India's computer installed?
(a) Indian Institute of Technology, Delhi
(b) Indian Institute of Science, Bangalore
(c) Indian Iron & Steel Co. Ltd., Burnpur
(d) Indian Statistical Institute, Calcutta</p> | <p>76. The dried flower buds are used as a spice in
(a) Cardamom (b) Cinnamon
(c) Cloves (d) Saffron</p> <p>77. The tissue in man where no cell division occurs after birth is
(a) skeletal (b) nerves
(c) connective (d) germinal</p> <p>78. DNA fingerprinting is used to identify the
(a) Parents (b) Rapist
(c) Thieves (d) All the above</p> <p>79. The normal cholesterol level in human blood is
(a) 80 – 120 mg%
(b) 120 – 140 mg%
(c) 140 – 180 mg%
(d) 180 – 200 mg%</p> <p>80. Which of the following are warm-blooded animals?
(a) Whales
(b) Whale Sharks
(c) Alytes
(d) Draco</p> <p>81. Syrinx is the voice box in
(a) Amphibians (b) Reptiles
(c) Birds (d) Mammals</p> <p>82. The largest ecosystem of the Earth is
(a) Biome (b) Hydrosphere
(c) Lithosphere (d) Biosphere</p> <p>83. In a food chain, the solar energy utilized by plants is only
(a) 10 per cent
(b) 1 per cent
(c) 0.1 per cent
(d) 0.01 per cent</p> <p>84. Supersonic jet causes pollution by thinning of
(a) O₃ layer (b) O₂ layer
(c) SO₂ layer (d) CO₂ layer</p> <p>85. OTEC stand for
(a) Ocean Thermal Energy Conservation
(b) Oil and Thermal Energy Conservation
(c) Ocean Thermal Energy Conversion
(d) Ocean Thermal Energy Conversion</p> |
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| <p>86. As per Railway Budget for 2011-2012, the senior citizen concession for men has been increased from
(a) 25 % to 30%
(b) 30 % to 40%
(c) 40 % to 50%
(d) 30 % to 50%</p> <p>87. The monster earthquake-cum-tsunami which hit Japan on March, 11, 2011 has moved the country's main island, Honshu, by about
(a) two feet (b) three feet
(c) five feet (d) eight feet</p> <p>88. What is the commonly used unit for measuring the speed of data transmission?
(a) Mega Hertz
(b) Character per second
(c) Bits per second
(d) Nano seconds</p> <p>89. Which type of reaction produces the most harmful radiation?
(a) Fusion reaction
(b) Fission reaction
(c) Chemical reaction
(d) Photo-Chemical reaction</p> <p>90. Which type of glass is used for making glass reinforced plastic?
(a) Pyrex glass (b) Flint glass
(c) Quartz glass (d) Fibre glass</p> <p>91. Which of the following metals causes Itai-Itai disease?
(a) Cadmium (b) Chromium
(c) Cobalt (d) Copper</p> <p>92. Glycol is added to aviation gasoline because it
(a) reduces evaporation of petrol
(b) increases efficiency of petrol
(c) prevents freezing of petrol
(d) reduces consumption of petrol</p> <p>93. Who invented penicillin?
(a) Alexander Fleming
(b) Louis Pasteur
(c) Dresser
(d) Edward Jenner</p> | <p>94. 2018 FIFA World Cup would be held in
(a) Russia
(b) Qatar
(c) France
(d) Netherlands</p> <p>95. Who of the following was not the recipient of Nobel Prize in Economics 2010?
(a) Peter A. Diamond
(b) Christopher Pissarides
(c) Lui Xiaobo
(d) Dale Mortensen</p> <p>96. Which troubled model was recalled recently by the Indian automobile giant Maruti Suzuki for replacement of faulty fuel pump gasket?
(a) Maruti 800
(b) Maruti A-Star
(c) Wagon R
(d) Baleno</p> <p>97. As a part of Human Resource Development Ministry's 'brain gain' policy to attract global talent, 14 world class universities to attract global talents are proposed to be set up in various states. Name the state from the following where no university of the aforesaid type is proposed to be located.
(a) Punjab
(b) Bihar
(c) Rajasthan
(d) Uttaranchal</p> <p>98. Who discovered South Pole?
(a) Robert Peary
(b) Amundsen
(c) John Cabot
(d) Tasman</p> <p>99. Which of the following folk dances is associated with Rajasthan?
(a) Rauf (b) Jhora
(c) Veedhi (d) Suisini</p> <p>100. Which of the following books is authored by V.S. Naipulu?
(a) The Rediscovery of India
(b) A House for Mr. Biswas
(c) Witness the Night
(d) Tender Hooks</p> |
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PART – C
NUMERICAL APTITUDE

101. If $p = 124$, $\sqrt[3]{p(p^2 + 3p + 3) + 1} = ?$

- (a) 5 (b) 7
 (c) 123 (d) 125

102. If $\sqrt{1 - \frac{x^3}{100}} = \frac{3}{5}$, then x equals

- (a) 2 (b) 4
 (c) 16 (d) $(136)^{1/3}$

103. I multiplied a natural number by 18 and another by 21 and added the products. Which one of the following could be the sum?

- (a) 2007 (b) 2008
 (c) 2006 (d) 2002

104. The product of two numbers is 45 and their difference is 4. The sum of squares of the two numbers is

- (a) 135 (b) 240
 (c) 73 (d) 106

105. $\sqrt{8 + \sqrt{57 + \sqrt{38 + \sqrt{108 + \sqrt{169}}}}} = ?$

- (a) 4 (b) 6
 (c) 8 (d) 10

106. The square root of $14 + 6\sqrt{5}$ is

- (a) $2 + \sqrt{5}$ (b) $3 + \sqrt{5}$
 (c) $5 + \sqrt{3}$ (d) $3 + 2\sqrt{5}$

107. When 2^{31} is divided by 5 the remainder is

- (a) 4 (b) 3
 (c) 2 (d) 1

108. The value of $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{3}}}}}$

(a) $\frac{21}{13}$ (b) $\frac{17}{3}$

(c) $\frac{34}{21}$ (d) $\frac{8}{5}$

109. The unit digit in the product $(122)^{173}$ is

- (a) 2 (b) 4
 (c) 6 (d) 8

110. The value of $\frac{2 + \sqrt{3}}{2 - \sqrt{3}} + \frac{2 - \sqrt{3}}{2 + \sqrt{3}} + \frac{\sqrt{3} + 1}{\sqrt{3} - 1}$ is

- (a) $16 + \sqrt{3}$ (b) $4 - \sqrt{3}$
 (c) $2 - \sqrt{3}$ (d) $2 + \sqrt{3}$

111. If $a * b = 2a + 3b - ab$, then the value of $(3 * 5 + 5 * 3)$ is

- (a) 10 (b) 6
 (c) 4 (d) 2

112. Simplify:

$$\frac{0.0347 \times 0.0347 \times 0.0347 + (0.9653)^3}{(0.0347)^2 - (0.347) + (0.09653)^2}$$

- (a) 0.9306 (b) 1.0009
 (c) 1.0050 (d) 15

113. A copper wire is bent in the form of an equilateral triangle, and has area $121\sqrt{3} \text{ cm}^2$.

If the same wire is bent into the form of a circle, the area (in cm^2) enclosed by the wire

is (Take $\pi = \frac{22}{7}$)

- (a) 364.5 (b) 693.5
 (c) 346.5 (d) 639.5

114. A child reshapes a cone made up of clay of height 24 and radius 6cm into a sphere. The radius (in cm) of the sphere is

- (a) 6 (b) 12
 (c) 24 (d) 48

115. Water flows into a tank which is 200m long and 150m wide, through a pipe of cross-section $0.3\text{m} \times 0.2\text{m}$ at 20 km/hour. Then

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- the time (in hour) for the water level in the tank to reach 8cm is
(a) 50 (b) 120
(c) 150 (d) 200
116. The product of two numbers is 2028 and their H.C.F. is 13. The number of such pairs is
(a) 1 (b) 2
(c) 3 (d) 4
117. Two equal vessels are filled with the mixture of water and milk in the ratio of 3:4 and 5:3 respectively. If the mixtures are poured into a third vessel, the ratio of water and milk in the third vessel will be
(a) 15 : 12 (b) 53 : 59
(c) 20 : 9 (d) 59 : 53
118. I am three times as old as my son. 15 years hence, I will be twice as old as my son. The sum of our ages is
(a) 48 years (b) 60 years
(c) 64 years (d) 72 years
119. Three bells ring simultaneously at 11 a.m. They ring at regular intervals of 20 minutes, 30 minutes, 40 minutes respectively. The time when all the three ring together next is
(a) 2 p.m. (b) 1 p.m.
(c) 1.15 p.m. (d) 1.30 p.m.
120. A and B together can do a work in 12 days. B and C together do it in 15 days. If A's efficiency is twice that of C, then the days required for B alone to finish the work is
(a) 60 (b) 30
(c) 15 (d) 15
121. A and B can do a work in 12 days, B and C can do the same work in 15 days, C and A can do the same time work in 20 days. The time taken by A, B and C to do the same work is
(a) 5 days (b) 10 days
(c) 15 days (d) 20 days
122. A is 50% as efficient as B. C does half of the work done by A and B together. If C alone does the work in 20 days, then A, B and C together can do the work in
- (a) $5\frac{2}{3}$ days (b) $6\frac{2}{3}$ days
(c) 6 days (d) 7 days
123. The ratio of the volumes of water and glycerine in 240cc of a mixture is 1 : 3. The quantity of water (in cc) that should be added to the mixture so that the new ratio of the volume of water and glycerine becomes 2:3 is
(a) 55 (b) 60
(c) 62.5 (d) 64
124. At present, the ratio of the ages of Maya and Chhaya is 6:5 and fifteen years from now, the ratio will get changed to 9:8. Maya's present age is
(a) 21 years (b) 24 years
(c) 30 years (d) 40 years
125. The ratio of the income to the expenditure of a family is 10:7. If the family's expenses are Rs. 10,500, then savings of the family is
(a) Rs. 4,500 (b) Rs. 10,000
(c) Rs. 4,000 (d) Rs. 5,000
126. The average mathematics marks of two Sections A and B of Class IX in the annual examination is 74. The average marks of Section A is 77.5 and that of Section B is 70. The ratio of the number of students of Section A and B
(a) 7 : 8 (b) 7 : 5
(c) 8 : 7 (d) 8 : 5
127. The average weight of a group of 20 boys was calculated to be 89.4 kg and it was later discovered that one weight was misread as 78kg instead of 87 kg. The correct average weight is
(a) 88.95 kg (b) 89.25 kg
(c) 89.55 kg (d) 86.85 Kg
128. The diameter of a wheel is 98 cm. The number of revolutions in which it will have to cover a distance of 1540 m is
(a) 500 (b) 600
(c) 700 (d) 800
129. In an equilateral triangle ABC of side 10cm,

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- the side BC is trisected at D. Then the length (in cm) of AD is
- (a) $3\sqrt{7}$ (b) $7\sqrt{3}$
- (c) $\frac{10\sqrt{7}}{3}$ (d) $\frac{7\sqrt{10}}{3}$
130. The cost price of an article is Rs. 800. After allowing a discount of 10%, a gain of 12.5% was made. Then the marked price of the article is
- (a) Rs. 1,000 (b) Rs. 1,100
- (c) Rs. 1,200 (d) Rs. 1,300
131. A man bought an article listed at Rs. 500 with a discount of 20% offered on the list price. What additional discount must be offered to man to bring the net price to Rs. 1,104?
- (a) 8% (b) 10%
- (c) 12% (d) 15%
132. If $\frac{a}{b} = \frac{c}{d} = \frac{e}{f} = 3$,
- then $\frac{2a^2 + 3c^2 + 4e^2}{2b^2 + 3d^2 + 4f^2} = ?$
- (a) 2 (b) 3
- (c) 4 (d) 9
133. The floor of a room is of size 4m × 3m and its height is 3m. The walls and ceiling of the room require painting. The area to be painted is
- (a) 66 m² (b) 54 m²
- (c) 43 m² (d) 33 m²
134. When the price of an article was reduced by 20% its sale increased by 80%. What was the net effect on the sale?
- (a) 44% increase (b) 44% decrease
- (c) 66% increase (d) 66% decrease
135. The price of sugar goes up by 20%. If a housewife wants the expenses on sugar to remain the same, she should reduce the consumption by
- (a) $15\frac{1}{5}\%$ (b) $13\frac{2}{3}\%$
- (c) 20% (d) 25%
136. In a factory 60% of the workers are above 30 years and of these 75% are males and the rest are females. If there are 1350 male workers above 30 years, the total number of workers in the factory
- (a) 3000 (b) 2000
- (c) 1800 (d) 1500
137. Walking at $\frac{3}{4}$ of his usual speed, a man is $1\frac{1}{2}$ hours late. His usual time to cover the same distance, in hours, is
- (a) $4\frac{1}{2}$ (b) 4
- (c) $5\frac{1}{2}$ (d) 5
138. The selling price of 10 oranges is the cost price of 13 oranges. Then the profit percentage is
- (a) 30% (b) 10%
- (c) 13% (d) 3%
139. The marked price of a radio is Rs. 480. The shopkeeper allows a discount of 10% and gains 8%. If no discount is allowed, his gain percent would be
- (a) 18% (b) 18.5%
- (c) 20.5% (d) 20%
140. A man sold 20 apples for Rs. 1000 and gained 20%. How many apples did he buy for Rs. 100?
- (a) 20 (b) 22
- (c) 24 (d) 25

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141. A rectangular sheet of metal is 40 cm by 15 cm. Equal squares of side 4 cm are cut off at the corners and the remainder is folded up to form an open rectangular box. The volume of the box is

(a) 896 cm³ (b) 986 cm³
 (c) 600 cm³ (d) 916 cm³

142. If 78 is divided into three parts which are in the ratio $1 : \frac{1}{3} : \frac{1}{6}$, the middle part is

(a) $9\frac{1}{3}$ (b) 13
 (c) $17\frac{1}{3}$ (d) $18\frac{1}{3}$

143. The simple interest on a sum of money is $\frac{1}{9}$ of the principle and the number of years is equal to rate per cent annum. The rate per annum is

(a) 3% (b) $\frac{1}{3}$ %
 (c) $3\frac{1}{3}$ % (d) $\frac{3}{10}$ %

144. The difference between simple interest and compound interest of a certain sum of money at 20% per annum for 2 years is Rs. 48. Then the sum is

(a) Rs. 1,000 (b) Rs. 1,200
 (c) Rs. 1,500 (d) Rs. 2,000

145. Shri X goes to his office by scooter at a speed of 30 km/h and reaches 6 minutes earlier. If he goes at a speed of 24 km/h, he reaches 5 minutes late. The distance of his office is

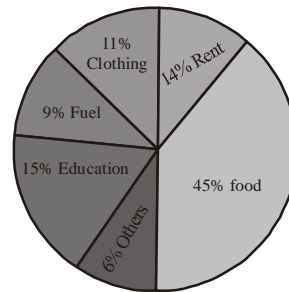
(a) 20 km (b) 21 km
 (c) 22 km (d) 24 km

146. A sum of money becomes eight times in 3 years, if the rate is compounded annually. In how much time will the same amount at the

same compound rate become sixteen times?

(a) 6 years (b) 4 years
 (c) 8 years (d) 5 years

Directions (147-150): The pie chart given below show the spending of a family on various heads during a month. Study the graph and answer the questions 147 to 150.



147. If the total income of the family is Rs. 25,000, then the amount spent on Rent and Food together is

(a) Rs. 17,250 (b) Rs. 14,750
 (c) Rs. 11,250 (d) Rs. 8,500

148. What is the ratio of the expenses of Education to the expenses on Food?

(a) 1 : 3
 (b) 3 : 1
 (c) 3 : 5
 (d) 5 : 3

149. Expenditure on Rent is what percent of expenditure of Fuel?

(a) 135%
 (b) 156%
 (c) 167%
 (d) 172%

150. Which three expenditures together have a central angle of 108°?

(a) Fuel, Clothing and Others
 (b) Fuel, Education and Others
 (c) Clothing, Rent and Others
 (d) Education, Rent and Others

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PART – D
ENGLISH COMPREHENSION

Directions (151-155): In the following question, some of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of the part is your answer. If a sentence is free from errors, then you answer is (d) i.e., No error.

151. A senior doctor (1) / expressed concern (2) / about physicians recommended the vaccine. (3) / No error. (4)
152. We have discussing (1) / all the known mechanisms (2) / of physical growth, (3) / No error. (4)
153. Children enjoy listening to (1) / ghosts stories (2) / especially on Halloween night. (3) / No error. (4)
154. I (1) / have (2) / many works to do. (3) / No error. (4)
155. There are so many filths (1) / all around (2) / the place. (3) / No error. (4)

Directions (156–160): In the following questions, sentences are given with blanks to be filled in with an appropriate word. Four alternatives are suggested for each question. Choose the correct alternative out of the four.

156. The building is not safe and must be ____ down.
(a) pull (b) pulling
(c) pulled (d) pulls
157. There is something wonderful ____ him.
(a) of (b) about
(c) for (d) inside
158. The song in the play cannot be deleted it is ____ to the story.
(a) intervened (b) innate
(c) exacting (d) integral
159. She remained a ____ all her life.

- (a) spinster (b) bachelor
(c) unmarried (d) single
160. Do not stay in the grasslands after dark, as some animals become ____ when they see humans.
(a) provoked (b) alerted
(c) aggressive (d) threatened

Directions (161-165): In the following, questions out of the four alternatives, choose one which best expresses the meaning of the given word.

161. LUCIDITY
(a) Fluidity (b) Politeness
(c) Clarity (d) Fluency
162. INDICT
(a) Implicate (b) Elude
(c) Appreciate (d) Judge
163. DELUGE
(a) Confusion (b) Deception
(c) Flood (d) Weapon
164. PREPONDERANCE
(A) Pre-eminence
(B) Dominance
(C) Domineering
(D) Preoccupation

Directions (166-170): In the following question no. 166 to 170, out of the four alternatives, choose the word opposite in meaning to the given word.

166. INVINCIBLE
(a) Small
(b) Invisible
(c) Vulnerable (d) Reachable
167. INOFFENSIVE
(a) Sensitive (b) Organic
(c) Sensible (d) Rude
168. DIVULGE
(a) Conceal (b) Disguise
(c) Oppress (d) Reveal
169. DISCORD
(a) Harmony (b) Serenity
(c) Acceptance (d) Placidity

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170. MAMMOTH
(a) Quiet (b) Significant
(c) Huge (d) Small

Directions (171-175): In the following four alternatives are given for the meaning of the given Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

171. To take to heart
(a) to be encouraged
(b) to grieve over
(c) to like
(d) to hate
172. Yeoman's service
(a) medical help
(b) excellent work
(c) social work
(d) hard work
173. To face the music
(a) to enjoy a musical recital
(b) to bear the consequences
(c) to live in a pleasant atmosphere
(d) to have a difficult time
174. To put up with
(a) to accommodate
(b) to adjust
(c) to understand
(d) to tolerate
175. To call it a day
(a) to conclude proceedings
(b) to initiate proceedings
(c) to work through the day
(d) None of the above

Directions (176-180): In the following questions, a sentence or bold part thereof is given which may need improvement. Alternative are given at (A), (B) and (C) below, which may be a better option. In case, no improvement is needed, your answer is (D).

176. The man whom I thought was thoroughly honest proved to be a swindler.

- (a) The man whom I thought was thoroughly honest proved as swindler.
(b) The man who I thought was thoroughly honest proved to be a swindler.
(c) The man to whom I thought was thoroughly honest proved to be a swindler,
(d) No improvement
177. No sooner had the dividend been declared, the notices were sent out.
(a) The company had hardly declared the dividend till the notices were sent for mailing.
(b) They had no sooner declared to dividend then the notices were sent out.
(c) Hardly had the dividend been declared than the notices were sent out.
(d) No improvement.
178. Riding upon his horse, the tiger jumped at him.
(a) Riding upon the tiger, the horse jumped at him.
(b) The tiger jumped at him while he was riding upon his horse.
(c) The tiger rode at him while he was jumping upon his horse.
(d) No improvement
179. I in black and white must have your terms down.
(a) I must have in black in white your terms down.
(b) I must have your terms in black and white down.
(c) I must have your terms down in black and white.
(d) No improvement.
180. When we are came out of the restaurant it was half past eleven.
(a) When we had come out of the restaurant
(b) After we came out of the restaurant
(c) When we have come out of the restaurant
(d) N i nt

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Directions (181-185): In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

181. Code of diplomatic etiquette and precedence
(a) Statesmanship
(b) Diplomacy
(c) Hierarchy (d) Protocol
182. To renounce a high position of authority or control
(a) Abduct (b) Abandon
(c) Abort (d) Abdicate
183. Not to be moved by entreaty
(a) Rigorous (b) Negligent
(c) Inexorable (d) Despotism
184. An object or portion serving as a sample
(a) Specification (b) Spectre
(c) Spectacle (d) Specimen
185. The practice of submitting a proposal to popular vote
(a) Election (b) Reference
(c) Popularity (d) Referendum

Directions (186-190): In the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

186. (a) mandatory
(b) circulatory
(c) temporary
(d) regulatory
187. (a) convinience
(b) initiative
(c) concessional
(d) exaggerate
188. (a) dialogue (b) giraffe
(c) scissors (d) humourous
189. (a) assiduous (b) nefarious
(c) macabre (d) loquacious
190. (a) cortege (b) damage
(c) mileage (d) plumege

Directions (191-200): In the following passage some of the words have been left out. First read the passage over and try to understand what it is about. Then fill the blanks with the help of the alternative given.

PASSAGE

Science means knowledge, but not all knowledge is science. I know from my own eyesight that our dog Chippy lies papaya; I know from a book that Akbar was the (191) of Babar, and (192) in 1605; and I know (193) the ratio that India did not do well in the (194) Test matches. We can call these (195) of knowledge (196) but they are not science.

Science (197) with facts, but not with facts which have (198) to do with each other, like the facts about our dog, cricket and the Mughal ruler; those facts are not related (199), and so have nothing (200) with science. Science starts with observation.

191. (a) grandson
(b) grandfather
(c) grand nephew
(d) son
192. (a) gone (b) died
(c) disappeared (d) absented
193. (a) on (b) in
(c) since (d) from
194. (a) old (b) ordinary
(c) latest (d) outdated
195. (a) pieces (b) peace
(c) whole (d) block
196. (a) lies (b) charges
(c) facts (d) blame
197. (a) starts (b) stops
(c) passes (d) drives
198. (a) no (b) neither
(c) nor (d) nothing
199. (a) by that way (b) in any way
(c) from the side (d) in addition to
200. (a) to lie (b) to speak
(c) to sleep (d) to do

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

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SOLVED PAPER SSC COMBINED GRADUATE LEVEL PRELIM EXAM

Held on: 16.05.2010 (First Sitting)

GENERAL INTELLIGENCE

Directions (1-8): In each of the following questions, select the related letters/word/number from the given alternatives.

1. ACEG : SUWY :: BDFH : ?
(a) TVZX (b) RTZV
(c) TVXZ (d) RTVZ
2. $\frac{M}{AC} : \frac{N}{AD} :: \frac{O}{AE} : ?$
(a) $\frac{P}{AF}$ (b) $\frac{Q}{AB}$ (c) $\frac{P}{AC}$ (d) $\frac{R}{AD}$
3. 5 : 27 :: 9 : ?
(a) 83 (b) 81
(c) 36 (d) 18
4. 6 : 11 :: 11 : ?
(a) 6 (b) 17
(c) 20 (d) 30
5. ABE : 8 :: KLO : ?
(a) 37 (b) 39
(c) 38 (d) 36
6. Sty : Pig :: Byre : ?
(a) Eagle (b) Cow
(c) Tiger (d) Hen
7. Patrol : Security :: Insurance : ?
(a) Money (b) Policy
(c) Savings (d) Risk
8. ADBC : EHFG :: ILJK : ?
(a) MOPN (b) MPNO
(c) ORPQ (d) MPON

Directions (9-14): In each of the following questions, select the one which is different from the other three responses.

9. (a) 25,36 (b) 144, 169
(c) 100, 121 (d) 9,64
10. (a) Heat (b) Light
(c) Bulb (d) Electricity
11. (a) Wave (b) Current
(c) Tide (d) Storm
12. (a) X (b) Y
(c) H (d) D
13. (a) ZKXJ (b) CMAL
(c) TGRF (d) FRTK
14. (a) ABJNM (b) QRTUZ
(c) IXYOQ (d) WFGOP
15. Arrange the following words according to the dictionary ?
 1. Inventory
 2. Involuntary
 3. Invisible
 4. Invariable
 5. Investigate(a) 4, 2, 5, 3, 1 (b) 4, 5, 1, 3, 2
(c) 2, 5, 4, 1, 3 (d) 4, 1, 5, 3, 2
16. Find the next two letters in the given series.
B C E H L ? ?
(a) XY (b) MN
(c) QW (d) OP
17. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
a _ b _ a _ _ n _ bb _ abbn
(a) abnabb (b) bnbban
(c) bnbbna (d) babban

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18. Find out a set of numbers amongst the four sets of numbers given in the alternatives, which is the most similar to the numbers given in the question. Given : (6, 30, 90)
 (a) 6, 42, 86 (b) 7, 42, 218
 (c) 6, 24, 70 (d) 8, 48, 192
19. Which one number is wrong in the given series?
 126, 98, 70, 41, 14
 (a) 98 (b) 70
 (c) 126 (d) 41
20. Arrange the following in the meaningful/logical order
 1. Exhaust 2. Night
 3. Day 4. Sleep
 5. Work
 (a) 1,3,5,2,4 (b) 3,5, 1,4,2
 (c) 3, 5, 1, 2, 4 (d) 3, 5, 2, 1, 4
- Directions (21-24):** In each of the following questions, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
21. 3, 4, 7, 11, 18, 29,...?...
 (a) 31 (b) 39
 (c) 43 (d) 47
22. AGMSY, CIOUA, EKQWC,...?... IOUAG, KQWCI
 (a) GMSYE (b) FMSYE
 (c) GNSYD (d) FMYES
23. 975, 864, 753, 642,...?...
 (a) 431 (b) 314
 (c) 531 (d) 532
24. 8, 24, 12,...?...18,54
 (a) 28 (b) 36
 (c) 46 (d) 38
25. Ashok's mother was 3 times as old as Ashok 5 years ago. After 5 years she will be twice as old as Ashok. How old is Ashok today ?
 (a) 10 years (b) 15 years
 (c) 20 years (d) 25 years
26. M is the son of P. Q is the grand-daughter of O who is the husband of P. How is M related to O?
 (a) Son (b) Daughter
 (c) Mother (d) Father
27. In a row of boys, Srinath is 7th from the left and Venkat is 12th from the right. If they interchange their positions, Srinath becomes 22nd from the left. How many boys are there in the row ?
 (a) 19 (b) 31
 (c) 33 (d) 34
28. From the given alternative words, select the word which cannot be formed using the letters of the given word
 Given : IMPASSIONABLE
 (a) IMPASSABLE (b) IMPOSSIBLE
 (c) IMPASSIVE (d) IMPASSION
29. Only one meaningful word can be formed by rearranging the letter of the given jumbled word. Find out that word.
 Given : MUSPOPAPOTIH
 (a) METAMORPHIC (b) PHILANTHROPIST
 (c) HIPPOCAMPUS (d) HIPPOPOTAMUS
30. Which number is wrong in the given series ?
 1, 9, 25, 50, 81
 (a) 1 (b) 25
 (c) 50 (d) 81
31. A bus leaves Delhi with half the number of women as men. A Meerut, ten men get down and live women get in. Now there are equal number of men and women. How many passengers boarded the bus initially at Delhi ?
 (a) 36 (b) 45
 (c) 15 (d) 30
32. If the day before yesterday was Sunday, what day will it be three days after the day after tomorrow
 (a) Sunday (b) Monday
 (c) Wednesday (d) Saturday
- Directions (33):** In the following question, one statement is given followed by two assumptions I and II. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given assumptions, if any, follow from the given statement.
33. **Statement:** Politicians become rich by the votes of the people.
Assumptions:
 I. People vote to make politician rich.
 II. Politicians become rich by their virtue.
 (a) Only I is implicit (b) Only II is implicit
 (c) Both I and II are implicit
 (d) Both I and II are not implicit

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Directions (34): In the following question, two statements P and Q are given followed by four conclusions I, II, III and IV. You have to consider the two statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow the given statements.

34. Statements:

- P. All men are women.
 Q. All women are crazy.

Conclusions

- I. All men are crazy.
 II. All the crazy are men.
 III. Some of the crazy are men.
 IV. Some of the crazy are women
 (a) None of the conclusions follow
 (b) All the conclusions follow
 (c) Only I, III and IV follow
 (d) Only II and III follow

35. If HOSPITAL is written as 32574618 in a certain code, how would POSTAL be written in that code?

- (a) 752618 (b) 725618
 (c) 725168 (d) 725681

36. Find the missing number from the given responses.

173 (24) 526
 431 (18) 325
 253 (?) 471

- (a) 22 (b) 42
 (c) 30 (d) 06

37. After interchanging \div and $+$, 12 and 18, which one of the following equations becomes correct?

- (a) $(90 \times 18) + 18 = 60$ (b) $(18 + 6) \div 12 = 2$
 (c) $(72 \div 18) \times 18 = 72$ (d) $(12 + 6) \times 18 = 36$

38. If SPARK is coded as TQBSL, what will be the code for FLAME ?

- (a) GMBNF (b) GNBNF
 (c) GMCND (d) GMBMF

39. Find out the correct answer for the unsolved equation on the basis of the given equations.

If $6 \times 5 = 91$
 $8 \times 7 = 169$
 $10 \times 7 = 211$
 then $11 \times 10 = ?$

- (a) 331 (b) 993
 (c) 678 (d) 845

40. A child is looking for his father. He went 90 metres in the east before turning to his right. He went 20 metres before turning to his right again to look for his father at his uncle's place 30 metres from this point. His father was not here. From here he went 100 metres to his north before meeting his father in a street. How far did the son meet his father from the starting point?

- (a) 90 m (b) 100 m
 (c) 260 m (d) 140 m

41. In the following question, A stands for any of the mathematical signs at different places, which are given as choices under each question. Select the choice with the correct sequence of signs which when substituted makes the question as a correct equation.

$$24 \triangle 4 \triangle 5 \triangle 4$$

- (a) $\times + =$ (b) $= \times +$
 (c) $+ \times =$ (d) $= + \times$

42. What is the number missing from the third target?

5	9	15
16	29	?
49	89	147

- (a) 45 (b) 48
 (c) 51 (d) 54

43. In a classroom, there are 5 rows, and 5 children A, B, C, D and E are seated one behind the other in 5 separate rows as follows:

A is sitting behind C, but in front of B.
 C is sitting behind E. D is sitting in front of E.
 The order in which they are sitting from the first row to the last is

- (a) DECAB (b) BACED
 (c) ACBDE (d) ABEDC

44. Little wooden cubes each with a side of one inch are put together to form a solid cube with a side of three inches. This big cube is then painted red all over on the outside. When the big cube is broken up into the original little ones, how many cubes will have paint on two sides ?

- (a) 4 (b) 8
 (c) 12 (d) 0

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45. K is a place which is located 2 km away in the north-west direction from the capital P. R is another place that is located 2 km away in the south-west direction from K. M is another place and that is located 2 km away in the north-west direction from R. T is yet another place that is located 2 km away in the south-west direction from M. In which direction is T located in relation to P ?

- (a) South-west (b) North-west
 (c) West (d) North

46. Find out which of the diagrams given in the alternatives correctly represents the relationship stated in the question.

Sharks, Whales, Turtles.

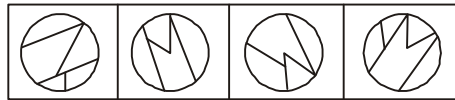
- (a)  (b) 
 (c)  (d) 

Directions (47): In this question, among the four answer figures, which figure can be formed from the cut-pieces given below in the question figure.

47. **Question Figure**

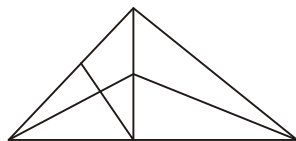


Answer Figure



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

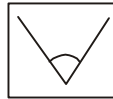
48. How many triangles are there in the following figure ?



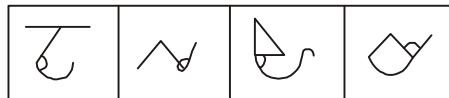
- (a) 11 (b) 13
 (c) 9 (d) 15

49. From the given answer figures, select the one in which the question figure is hidden/embedded in the same direction.

Question Figure



Answer Figures



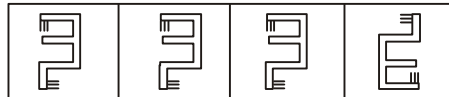
- (a) (b) (c) (d)

50. Which answer figure is the exact mirror image of the given question figure when the mirror is held from the right at PQ ?

Question Figure



Answer Figures



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

GENERAL AWARENESS

51. A concave lens always forms an image which is
 (a) real and erect (b) virtual and erect
 (c) real and inverted (d) virtual and inverted

52. A vitamin requires cobalt for its activity. The vitamin is

- (a) Vitamin B12 (b) Vitamin D
 (c) Vitamin B2 (d) Vitamin A

53. One of the constituents of tear gas is

- (a) Ethane (b) Ethanol
 (c) Ether (d) Chloropicrin

54. The modulus of rigidity is the ratio of

- (a) longitudinal stress to longitudinal strain
 (b) Volume stress to volume strain
 (c) shearing stress to shearing strain
 (d) tensile stress to tensile strain

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55. The propagation of sound waves in a gas involves
 (a) adiabatic compression and rarefaction
 (b) isothermal compression and rarefaction
 (c) isochoric compression and rarefaction
 (d) isobaric compression and rarefaction
56. An atomic clock is based on transitions in
 (a) Sodium (b) Caesium
 (c) Magnesium (d) Aluminium
57. Plasma membrane in eukaryotic cells is made up of
 (a) Phospholipid (b) Lipoprotein
 (c) Phospholipo-protein (d) Phospho-protein
58. Which one of the following is also called the 'power plants' of the cell ?
 (a) Golgi body (b) Mitochondrion
 (c) Ribosome (d) Lysosome
59. What is the chemical name of vinegar ?
 (a) Citric acid (b) Acetic acid
 (c) Pyruvic acid (d) Malic acid
60. Which of the following is not a property of heavy water?
 (a) Boiling point of heavy water is lower than that of ordinary water
 (b) Density of heavy water is higher than that of ordinary water
 (c) Freezing point of heavy water is higher than that of ordinary water
 (d) It produces corrosion
61. In which of the following processes is energy released ?
 (a) Respiration (b) Photosynthesis
 (c) Ingestion (d) Absorption
62. Animals living in the three trunks are known as
 (a) Arboreal (b) Volant
 (c) Amphibious (d) Aquatic
63. Arrange the following in chronological order:
 1. Tughlaqs 2. Lodis
 3. Saiyids 4. Ilbari Turks
 5. Khiljis
 (a) 1, 2, 3, 4, 5 (b) 5, 4, 3, 2, 1
 (c) 2, 4, 5, 3, 1 (d) 4, 5, 1, 3, 2
64. The book titled 'The Indian War of Independence' was written by
 (a) Krishna Verma (b) Madama Cama
 (c) B.G. Tilak (d) V.D. Savarkar
65. Who was the founder of the 'Servants of India Society' ?
 (a) G.K. Gokhale (b) M.G. Ranade
 (c) B.G. Tilak (d) Bipin Chandra Pal
66. The term 'Caste' was derived from
 (a) Portuguese (b) Dutch
 (c) German (d) English
67. The term "Greater India" denotes
 (a) Political unity (b) Cultural unity
 (c) Religious unity (d) Social unity
68. Formalised system of trading agreements with groups of countries is known as
 (a) Trading blocks (b) Trade ventures
 (c) Trade partners (d) Trade organizations
69. Mahatma Gandhi was profoundly influenced by the writings of
 (a) Bernard Shaw (b) Karl Marx
 (c) Lenin (d) Leo Tolstoy
70. Seismic sea waves which approach the coasts at greater force are known as:
 (a) Tides (b) Tsunami
 (c) Current (d) Cyclone
71. Depression formed due to deflating action of winds are called:
 (a) Playas (b) Yardang
 (c) Ventifacts (d) Sand dunes
72. The land of maximum biodiversity is
 (a) Tropical (b) Temperate
 (c) Monsoonal (d) Equatorial
73. If input frequency of a full wave rectifier be n , then output frequency would be:
 (a) $\frac{n}{2}$ (b) n (c) $\frac{3n}{2}$ (d) $2n$
74. Heat transfer horizontally within the atmosphere is called
 (a) Conduction (b) Convection
 (c) Absorption (d) Advection
75. Indian Standard Time relates to
 (a) 75.5° E longitude
 (b) 82.5° E longitude
 (c) 90.5° E longitude (d) 0° longitude
76. Who is rightly called the "Father of Local Self Government" in India ?
 (a) Lord Mayo (b) Lord Ripon
 (c) Lord Curzon (d) Lord Clive

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77. The Directive Principles of State Policy was adopted from the
(a) British Constitution (b) Swiss Constitution
(c) U.S. Constitution (d) Irish Constitution
78. Which is the second nearest star to the Earth after the Sun ?
(a) Vega (b) Sirius
(c) Proxima Centaur (d) Alpha Centauri
79. The two forms of democracy are
(a) Parliamentary and Presidential
(b) Direct and Indirect
(c) Monarchical and Republican
(d) Parliamentary and King
80. Which is an extra-Constitutional body ?
(a) Language Commission
(b) Planning Commission
(c) Election Commission
(d) Finance Commission
81. The Prime Minister of India is
(a) Elected (b) Appointed
(c) Nominated (d) Selected
82. Which is not an All India Service ?
(a) Indian Administration Service
(b) Indian Police Service
(c) Indian Foreign Service
(d) Indian Forest Service
83. The forest in Sunderban is called
(a) Scrub jungle (b) Mangrove
(c) Deciduous forest (d) Tundra
84. Noise is measured in
(a) Watt (b) REM
(c) Centigrade (d) Decibel
85. Who among the following captured his third consecutive National Billiards title in the year 2009
(a) Pankaj Advani (b) Devendra Joshi
(c) Geet Sethi (d) Dhruv Sitawala
86. The Messenger Satellite launched by NASA is to study
(a) Mercury (b) Venus
(c) Saturn (d) Jupiter
87. What was the name of the ship that sank near the Paradip Port in September, 2009 causing an oil spill?
(a) Red Rose (b) Black Rose
(c) White Rose (d) Green Rose
88. Who among the following has been honoured with the prestigious Dadasaheb Phalke Award for 2007?
(a) Yash Chopra
(b) Utsav Amjad Ali Khan
(c) Manna Dey
(d) A. Nageshwara Rao
89. An Intelligent terminal
(a) has a microprocessor, but cannot be programmed by the user
(b) can process small data processing jobs, with the use of a large CPU
(c) interacts with the user in English
(d) cannot take data from the user
90. Which one of the following is not a method of estimating National Income ?
(a) Expenditure method
(b) Product method
(c) Matrix method
(d) Income method
91. The monetary policy in India is formulated by
(a) Central Government
(b) Industrial Financial Corporation of India
(c) Reserve Bank of India
(d) Industrial Development Bank of India
92. A short-term government security paper is called
(a) Share (b) Debenture
(c) Mutual fund (d) Treasury bill
93. WTO basically promotes
(a) Financial support (b) Global peace
(c) Unilateral trade (d) Multilateral trade
94. Under which market condition do firms have excess capacity ?
(a) Perfect competition
(b) Monopolistic competition
(c) Duopoly (d) Oligopoly
95. Price theory is also known as
(a) Macro Economics
(b) Development Economics
(c) Public Economics
(d) Micro Economics
96. At present, India is following
(a) Fixed exchange rate
(b) Floating exchange rate
(c) Pegged up exchange rate
(d) Pegged down exchange rate

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97. Who among the following won the 'ICC Cricketer of the Year Award' for the year 2009 ?
 (a) M.S. Dhoni (b) Gautam Gambhir (c) Mitchell Johnson (d) Tillakaratne Dilshan
98. The bats can fly in the dark because
 (a) they can see the objects in darkness (b) they have weak legs and are likely to be attacked by predators (c) they generate flashes of light (d) they generate ultrasonic sound waves
99. What changes will happen to a bowl of ice and water kept at exactly zero degree Celsius ?
 (a) All ice will melt (b) All water will become ice (c) No change will happen (d) Only some ice will melt
100. National Income is the
 (a) Net National Product at market price (b) Net National Product at factor cost (c) Net Domestic Product at market price (d) Net domestic Product at factor cost
- NUMERICAL APTITUDE**
101. The H.C.F. and L.C.M. of, two numbers are 8 and 48 respectively. If one of the numbers is 24, then the other number is
 (a) 48 (b) 36 (c) 24 (d) 16
102. The greatest number, which when subtracted from 5834, gives a number exactly divisible by each of 20, 28, 32 and 35, is
 (a) 1120 (b) 4714 (c) 5200 (d) 5600
103. The ninth term of the sequence 0, 3, 8, 15, 24, 35...is
 (a) 63 (b) 70 (c) 80 (d) 99
104. $\frac{0.125 + 0.027}{0.25 - 0.15 + 0.09}$ is equal to
 (a) 0.3 (b) 0.5 (c) 0.8 (d) 0.9
105. The sum of the series $(1 + 0.6 + 0.06 + 0.006 + 0.0006 + \dots)$ is
 (a) $1\frac{2}{3}$ (b) $1\frac{1}{3}$ (c) $2\frac{1}{3}$ (d) $2\frac{2}{3}$
106. $\sqrt{\frac{0.009 \times 0.036 \times 0.016 \times 0.08}{0.002 \times 0.0008 \times 0.0002}}$ is equal to
 (a) 34 (b) 36 (c) 38 (d) 39
107. A number, when divided by 114, leaves remainder 21. If the same number is divided by 19, then the remainder will be
 (a) 1 (b) 2 (c) 7 (d) 17
108. The square root of 0.09 is
 (a) 0.30 (b) 0.03 (c) 0.81 (d) 0.081,
109. The number 0. 121212.... in the P form $\frac{p}{q}$ is equal to
 (a) $\frac{4}{11}$ (b) $\frac{2}{11}$ (c) $\frac{4}{33}$ (d) $\frac{2}{33}$
110. If $\left(\frac{3}{5}\right)^3 \left(\frac{3}{5}\right)^{-6} = \left(\frac{3}{5}\right)^{2x-1}$ then x is equal to
 (a) -2 (b) 2 (c) -1 (d) 1
111. Two numbers are in the ratio 3 : 4. Their L.C.M. is 84. The greater number is
 (a) 21 (b) 24 (c) 28 (d) 84
112. A drum of kerosene is $\frac{3}{4}$ full. When 30 litres of kerosene is 7 drawn from it, it remains $\frac{1}{2}$ full. The capacity of the drum is
 (a) 120 l (b) 135 l (c) 150 l (d) 180 l
113. By what least number should 675 be multiplied so as to obtain a perfect cube number ?
 (a) 3 (b) 5 (c) 24 (d) 40
114. $\left(1\frac{1}{2} + 11\frac{1}{2} + 111\frac{1}{2} + 1111\frac{1}{2}\right)$ is equal to
 (a) 1236 (b) $1234\frac{1}{2}$ (c) 618 (d) 617

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115. $\overline{0.001}$ is equal to
 (a) $\frac{1}{1000}$ (b) $\frac{1}{999}$ (c) $\frac{1}{99}$ (d) $\frac{1}{9}$
116. $\frac{4.41 \times 0.16}{2.1 \times 1.6 \times 0.21}$ is simplified to
 (a) 1 (b) 0.1
 (c) 0.01 (d) 10
117. If a and b are two odd positive integers, by which of the following integers is $(a^4 - b^4)$ always divisible?
 (a) 3 (b) 6
 (c) 8 (d) 12
118. If $a = 11$ and $b = 9$, then the value of $\left(\frac{a^2 + b^2 + ab}{a^3 - b^3}\right)$ is
 (a) 2 (b) 2
 (c) 20 (d) 20
119. $\frac{256 \times 256 - 144 \times 144}{112}$ is equal to
 (a) 420 (b) 400
 (c) 360 (d) 320
120. If a and b be positive integers such that $a^2 - b^2 = 19$, then the value of a is
 (a) 19 (b) 20
 (c) 9 (d) 10
121. If the ratio of cost price and selling price of an article be as 10 : 11, the percentage of profit is
 (a) 8 (b) 10 (c) 11 (d) 15
122. A manufacturer marked an article at Rs. 50 and sold it allowing 20% discount. If his profit was 25%, then the cost price of the article was
 (a) Rs. 40 (b) Rs. 35
 (c) Rs. 32 (d) Rs. 30
123. A shopkeeper earns a profit of 12% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price of the book is
 (a) 45 : 56 (b) 45 : 51
 (c) 47 : 56 (d) 47 : 51
124. By selling a bicycle for Rs. 2,850, a shopkeeper gains 14%. If the profit is reduced to 8%, then the selling price will be
 (a) Rs. 2,600 (b) Rs. 2,700
 (c) Rs. 2,800 (d) Rs. 3,000
125. By selling an article, a man makes a profit of 25% of its selling price. His profit per cent is
 (a) 20 (b) 25
 (c) $16\frac{2}{3}$ (d) $33\frac{1}{3}$
126. If A's income is 50% less than that of B's, then B's income is what per cent more than that of A?
 (a) 125 (b) 100
 (c) 75 (d) 50
127. 1.14 expressed as a per cent of 1.9 is
 (a) 6% (b) 10%
 (c) 60% (d) 90%
128. Two natural numbers are in the ratio 3 : 5 and their product is 2160. The smaller of the numbers is
 (a) 36 (b) 24
 (c) 18 (d) 12
129. If 60% of A = 4 of B, then A is
 (a) 9 : 20 (b) 20 : 9
 (c) 4 : 5 (d) 5 : 4
130. Two successive price increase of 10% and 10% of an article are equivalent to a single price increase of
 (a) 19% (b) 20%
 (c) 21% (d) 22%
131. $\frac{\sqrt{3+x} + \sqrt{3-x}}{\sqrt{3+x} - \sqrt{3-x}} = 2$ then x is equal to
 (a) $\frac{5}{12}$ (b) $\frac{12}{5}$ (c) $\frac{5}{7}$ (d) $\frac{7}{5}$
132. An equilateral triangle of side cm has its corners cut off to form a regular hexagon. Area (in cm^2) of this regular hexagon will be
 (a) $3\sqrt{3}$ (b) $3\sqrt{6}$ (c) $6\sqrt{3}$ (d) $\frac{5\sqrt{3}}{2}$
133. The length (in metres) of the longest rod that can be put in a room of dimensions 10 m x 10 m x 5 m is
 (a) $15\sqrt{3}$ (b) 15 (c) $10\sqrt{2}$ (d) $\frac{5\sqrt{3}}{2}$

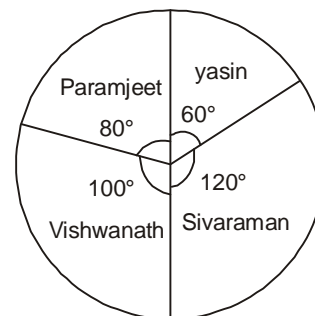
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134. If Rs. 1000 is divided between A and B in the ratio 3 : 2, then A will receive
 (a) Rs. 400 (b) Rs. 500
 (c) Rs. 600 (d) Rs. 800
135. What must be added to each term of the ratio 7 : 11, so as to make it equal to 3 : 4 ?
 (a) 8 (b) 7.5 (c) 6.5 (d) 5
136. A sum of money at compound interest doubles itself in 15 years. It will become eight times of it-self in
 (a) 45 years (b) 48 years
 (c) 54 years (d) 60 years
137. Buses start from a bus terminal with a speed of 20 km/hr at in-intervals tervals of 10 minutes. What is the speed of a man coming from the opposite direction towards the bus terminal if he meets the buses at intervals of 8 minutes ?
 (a) 3 km/hr (b) 4 km/hr
 (c) 5 km/hr (d) 7 km/hr
138. If the circumference of a circle is decreased by 50% then the per-centage of decrease in its area is:
 (a) 25 (b) 50
 (c) 60 (d) 75
139. At what rate per cent per annum will a sum of Rs. 1,000 amount to Rs. 1,102.50 in 2 years at compound interest ?
 (a) 5 (b) 5.5
 (c) 6 (d) 6.5
140. What annual payment will discharge a debt of Rs. 6,450 due in 4 years at 5% per annum simple interest ?
 (a) Rs. 1,400 (b) Rs. 1,500
 (c) Rs. 1,550 (d) Rs. 1,600
141. The average of the first 100 positive integers is
 (a) 100 (b) 51
 (c) 50.5 (d) 49.5
142. In a family, the average age of a father and a mother is 35 years. The average age of the father, mother and their only son is 27 years. What is the age of the son ?
 (a) 12 years (b) 11 years
 (c) 10.5 years (d) 10 years
143. If 5 men or 7 women can earn Rs. 5,250 per day, how much would 7 men and 13 women earn per day ?
 (a) Rs. 11,600 (b) Rs. 11,700
 (c) Rs. 16,100 (d) Rs. 17,100
144. If A and B together can complete a piece of work in 15 days and B alone in 20 days, in how many days can A alone complete the work ?
 (a) 60 (b) 45
 (c) 40 (d) 30
145. By walking at $\frac{3}{4}$ of his usual speed, a man reaches his office 20 minutes later than his usual time. The usual time taken by him to reach his office is
 (a) 75 minutes (b) 60 minutes
 (c) 40 minutes (d) 30 minutes
146. A can complete a piece of work in 18 days, B in 20 days and C in 30 days. B and C together start the work and are forced to leave after 2 days. The time taken by A alone to complete the remaining work is
 (a) 10 days (b) 12 days
 (c) 15 days (d) 16 days
147. A train, 300m long, passed a man, walking along the line in the same direction at the rate of 3 km/hr in 33 seconds. The speed of the train is
 (a) 30 km/h (b) 32 km/h
 (c) 32 8 km/h (d) 358 km/h

Directions (148-150): The pie chart, given here, represents the number of valid votes obtained by four students who contested election for school leadership. The total number of valid votes polled was 720.

Observe the chart and answer the questions based on it.



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148. What was the minimum number of votes obtained by any candidate ?
 (a) 100 (b) 110
 (c) 120 (d) 130
149. What was the winner ?
 (a) Sivaraman (b) Paramjeet
 (c) Yasin (d) Vishwanath
150. By how many votes did the winner defeat his nearest rival ?
 (a) 40 (b) 45
 (c) 48 (d) 50

ENGLISH COMPREHENSION

Directions (151-155): In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. Your answer is (d) i.e., No error.

151. He is a university professor (a)/ but of his three sons (b)/ neither has any merit. (c)/ No error (d).
152. After knowing truth, (a)/ they took the right decision (b)/ in the matter. (c)/ No error (d).
153. It is time you (a)/ decide on your next (b)/ course of action. (c)/ No error (d).
154. He who has suffered most (a)/ for the cause, (b)/ let him speak (c)/ No error (d).
155. A cup of coffee (a)/ is an excellent complement (b)/ to smoked salmon. (c)/ No error (d).

Directions (156-160): Sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

156. The hotel was not too expensive
 (a) was it ? (b) wasn't it?
 (c) is it ? (d) isn't it ?
157. Like humans, zoo animals must have a dentist their teeth
 (a) fill (b) filled
 (c) filling (d) to be filled
158. It was very kind of you to do the washing-up, but you _ it.
 (a) didn't have to do (b) hadn't to do
 (c) mightn't have done (d) mustn't have done

159. He went sea alone.
 (a) in (b) to
 (c) into (d) on
160. The.....of our civilization from an agricultural society to today's complex industrial world was accompanied by war.
 (a) adjustment (b) migration
 (c) route (d) metamorphosis

Directions (161-165): In the following questions choose the word opposite in meaning to the given word.

161. FLORID
 (a) Weak (b) Pale
 (c) Monotonous (d) Ugly
162. VERITY
 (a) Sanctity (b) Reverence
 (c) Falsehood (d) Rarity
163. PERSPICUITY
 (a) Vagueness (b) Dullness
 (c) Unfairness (d) Unwillingness
164. FERVENT
 (a) Inexcitable (b) Enduring
 (c) Dispassionate (d) Subdued
165. MEANDERING
 (a) Sliding (b) Sloping
 (c) Strained (d) Straight

Directions (166-170): In the following questions out of the four alternatives, choose the one which best expresses the meaning of the given word.

166. LUXURIANT
 (a) Luxury-loving (b) Lovely
 (c) Rich (d) Abundant
167. CANTANKEROUS
 (a) Cancerous (b) Ferocious
 (c) Quarrelsome (d) Fissiparous
168. ONUS
 (a) Sadness (b) Happiness
 (c) Responsibility (d) Criticism
169. DERISION
 (a) Humiliation (b) Embarrassment
 (c) Ridicule (d) Condemnation
170. TRITE
 (a) Commonplace (b) Clever
 (c) Brief (d) Impudent

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Directions (171-175): In the following questions a part of the sentence is bold. Below are given alternatives to the bold part at (a), (b) and (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (d).

171. Obviously he isn't cut up to be. good teacher.
(a) cut out (b) cut in
(c) cut for (d) No improvement
172. Power got with money is the most craved for today.
(a) sought after (b) wished for
(c) welcomed for (d) No improvement
173. The brown shirt wants washing.
(a) has to wash (b) is in need of a wash
(c) requires awash (d) No improvement
174. You are asked to copy this letter word by word.
(a) word for word (b) word with word
(c) word to word (d) No improvement
175. The weak man is a slave to his sensuous pleasures.
(a) sensory (b) sensual
(c) secondary (d) No improvement

Directions (176-180): In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

176. An underhand device resorted to in order to justify misconduct
(a) Subterfuge (b) Manoeuvre
(c) Stratagem (d) Complicity
177. Impossible to describe
(a) Miraculous (b) Ineffable
(c) Stupendous (d) Appalling
178. One who criticises popular beliefs which he thinks is mistaken or unwise
(a) Philistine (b) Iconoclast
(c) Imposter (d) Cannibal
179. Detaining and confining someone
(a) Interruption (b) Interrogation
(c) Interment (d) Internment
180. Science of the races of mankind
(a) Genealogy (b) Epistemology
(c) Ethnology (d) Sociology

Directions (181-185): In the following questions, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word.

181. (a) collaborate (b) comemorate
(c) colate (d) chocolate
182. (a) circuiteous (b) clairvoyant
(c) chivelry (d) cavalcade
183. (a) severety (b) sovereignty
(c) superiorty (d) serenity
184. (a) cummulative (b) comemorative
(c) accumulative (d) accommodative
185. (a) benidiction (b) besmerch
(c) beneficent (d) benevolence

Directions (186-190): In the following questions, the 1 stand the last sentences of the passage are numbered 1 and 6. The rest of the passage is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer.

186. 1. Education in India had a glorious beginning. P. But after the British rule, it faced many changes.
Q. It went on for centuries with the same glory.
R. English as the medium of instruction had a very great response.
S. One of the changes was the introduction of English as the medium of instruction.
6. As the Britishers left we had a complexity of opinions regarding English
(a) PQRS (b) QPSR (c) PQSR (d) SRPQ
187. 1. It is easy to criticize the people at the helm, for the slow progress in every field.
P. We are well aware that the intellectuals are leaving our country for better employment opportunities.
Q. Then question remains unanswered because our country cannot show opportunities to the intellectuals.
R. Then, what about their obligation to the Motherland ?
S. First, we should ask ourselves as to what is happening to the young intellectuals in India.
6. This situation of 'Brain-Drain' leads to a variety of problems.
(a) PSQR (b) RPSQ (c) PSRQ (d) SPRQ

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188. 1. It is the responsibility of parents to teach the young moral values in life.
 P. Many children take advantage of their parents' busy schedule.
 Q. This results in children's ignorance of social values.
 R. The reason behind it is that parents are quite busy nowadays.
 S. Nowadays parents spend very meagre time with children.
 6. As such, the society is going away from the value system.
 (a) SRPQ (b) PQRS (c) SQRP (d) SPQR
189. 1. The man who does his duty without any selfish desire for fruit may be called a sanyasi as well as yogi.
 P. The man who has achieved much evenness of temper will be serene, because his mere thoughts are changed with the strength of action.
 Q. He would practise yoga, i.e., evenness of temper, and cannot but perform action.
 R. The root of the matter is that one should not allow his mind to flit from object of desire to another and from that to a third.
 S. But he who abstains from action altogether is only an idler.
 6. A yogi is one who is not attached to his objects of sense or to action and whose mind has ceased to roam restlessly.
 (a) SRQP (b) RQPS
 (c) QRSP (d) PRSQ
190. 1. This was an important day for at took.
 P. It was a cold day, but Alatook would be warm.
 Q. For the first time he was going to hunt seals alone.
 R. First he put on his fur-lined jacket.
 S. Then he put on mittens and boots of deerskin to protect his hands and feet from the cold.
 6. Finally he picked up the gun he had cleaned so carefully the day before.
 (a) PQRS (b) QPRS (c) PRSQ (d) QRPS
191. They have made a film based on this novel.
 (a) A film was based on. this novel and made.
 (b) A film have been made based . on, this novel.
 (c) A film, based on this novel, has been made
 (d) A film has been based and made on this novel.
192. The people couldn't move me to the hospital and the doctor operated on me at home.
 (a) I couldn't be moved to the hospital and was operated on at home by the doctor.
 (b) I couldn't be moved to the hospital and I had to be operated on at home.
 (c) I couldn't be moved to the hospital and I was operated at home by the doctor.
 (d) I couldn't be moved to the hospital by the people and operated on at home.
193. Why did he deprive you of the membership ?
 (a) Why you were deprived of the membership?
 (b) Why were you deprived of his membership by him ?
 (c) Why was he deprived of his membership
 (d) Why were you deprived of your membership by him ?
194. The news has been brought to us by him.
 (a) He brought us the news.
 (b) He has brought us the news.
 (c) He was brought the news to us.
 (d) We brought the news to him.
195. Not a word was spoken by the criminal in self-defence.
 (a) The criminal spoke not a word in self-defence.
 (b) The criminal in self-defence spoke no word.
 (c) The criminal did not speak a word in self-defence.
 (d) The criminal spoke in self-defence not a word.

Directions (191-195): In the following questions, a sentence has been given in Active Voice/Passive Voice, Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/ Active Voice.

Directions (196-200): In the following passage, you have one brief passage with 5 questions following the passage. Read the passage carefully and choose the best answer to each question out of the four alternatives.

PASSAGE

Every profession or, trade, every art and every science has its technical vocabulary, the function of which is partly to designate things or processes which have no names in ordinary English and partly to secure greater exactness in nomenclature. Such special dialects or jargons are necessary in

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technical discussion of any kind. Being universally understood by the devotees of the particular science or art, they have the precision of a mathematical formula. Besides, they save time, for it is much more economical to name a process than to describe it. Thousands of these technical terms are very properly included in every large dictionary, yet, as a whole, they are rather on the outskirts of the English language than actually within its borders. Different occupations, however, differ widely in the character of their special vocabularies. In trades and handicrafts and other vocations like farming and fishing that have occupied great numbers of men from remote times, the technical vocabulary is very old. An average man now uses these in his own vocabulary. The special dialects of law, medicine, divinity and philosophy have become familiar to cultivated persons.

196. Special words used in technical discussion
 (a) may become part of common speech
 (b) never last long
 (c) should resemble mathematical formula
 (d) should be confined to scientific fields

197. The writer of this article is
 (a) a scientist (b) a politician
 (c) a linguist (d) a businessman
198. This passage is primarily concerned with
 (a) various occupations and professions
 (b) technical terminology
 (c) scientific undertakings
 (d) a new language
199. It is true that
 (a) various professions and occupations often interchange words
 (b) there is always a non-technical word that may be substituted for the technical word
 (c) the average man often uses in his own vocabulary what was once technical language not meant for him
 (d) everyone is interested in scientific findings
200. In recent years, there has been a marked increase in the number of technical terms in the nomenclature of
 (a) Farming (b) Fishing
 (c) Sports (d) Government

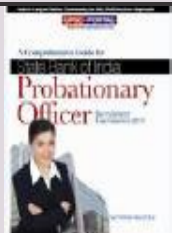
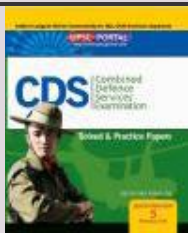
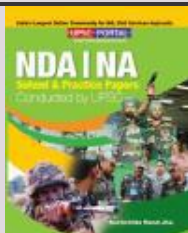
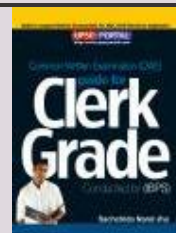
ANSWERS

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

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SOLVED PAPER SSC COMBINED GRADUATE LEVEL PRELIM EXAM

Held on: 27.07.2008 (First Sitting)

GENERAL INTELLIGENCE

1. In the following question, the number of letters skipped in between adjacent letters in the series is 5. Which of the following series observes this rules ?

(a) XDIPV (b) XDKPV
(c) XDJOV (d) XDJPV

Directions: From among the given alternatives select the one in which the set of numbers is most like the set of numbers given in the question.

2. Given set (3, 4, 5)
(a) (6, 8, 10) (b) (9, 12, 15)
(c) (6, 7, 8) (d) (12, 16, 20)

Directions (3 - 4): In the following questions arrange the given words in a meaningful order.

3. (A) Rain (B) Vaporisation
(C) Water (D) Condensation
(E) Cloud
(a) A, C, B, D, E (b) E, C, D, A, B
(c) C, B, E, D, A (d) B, C, E, D, A
4. (A) Travel (B) Destination
(C) Payment (D) Reservation
(E) Availability of berth/ Seat for reservation
(a) A, B, C, D, E (b) B, C, E, D, A
(c) B, A, E, C, D (d) B, E, C, D, A

Directions: Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

5. ca _bd _ec _fd _ge ?
(a) b, c, d, e (b) b, d, c, e
(c) b, c, e, d (d) d, b, c, e

Directions (6 - 12): In the following questions, find the missing/ number/letters/figure from the given responses.

6. $\frac{A}{4}, \frac{D}{9}, \frac{H}{15}, \frac{M}{22}, ?$

(a) $\frac{R}{30}$ (b) $\frac{S}{30}$ (c) $\frac{Q}{31}$ (d) $\frac{Q}{30}$

7. ZCBA, YFED, XIHG, ?

(a) WLKM (b) WJKL
(c) WKLJ (d) WLKJ

8. 1, 2, 3, 14, 5, 34, 7, ?, ?

(a) 68, 7 (b) 63, 9
(c) 60, 11 (d) 62, 9

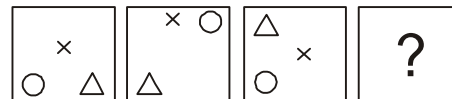
9. 255, 366, 479, 684, ?

(a) 891 (b) 125
(c) 216 (d) 343

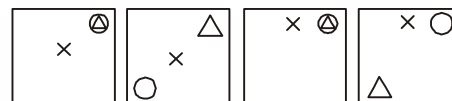
10. $25 - K - 8, 23 - 1 - 11, 21 - G - 14, 19 - E - 17, ?$

(a) $17 - F - 19$ (b) $19 - C - 17$
(c) $17 - C - 20$ (d) $20 - D - 17$

11. Question Figures

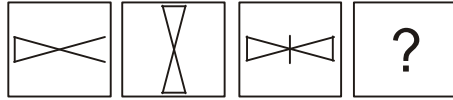


Answer Figures

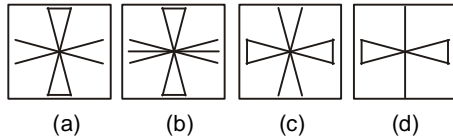


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12. Question Figures



Answer Figures



13. A is father of C and D is son of B. E is brother of A. If C is sister of D how is B related to E ?
 (a) Sister - in - law (b) Sister
 (c) Brother (d) Brother - in - law
14. The difference between a mother's age and the sum of her two daughters' age is 6. The average age of two daughters is 22. What is the age of mother?
 (a) 40 (b) 44
 (c) 46 (d) 50
15. Of the six members of a panel sitting in a row X is to the left of Q but on the right of P. Y is on the right of Q but is on the left of Z, Z is to the left of R, Find the members who are at the extreme ?
 (a) QZ (b) xZ
 (c) PR (d) QY

Directions (16-17): In each of the following questions a word given in Capital Letters is followed by four answer words. Out of these only one cannot be formed by using the letters of the given words. Find out that word.

16. INTEGRAL
 (a) ENTREATY (b) TRIANGLE
 (c) RELATING (d) ALERTING
17. RAPPROCHEMENT
 (a) REPRESENT (b) REPROACH
 (c) PHANTOM (d) CEMENT
18. In a code language the following alphabets are coded in a particular way

A B C D E M N O S R U

Which word can be decoded from the following?

- (a) BOUND (b) BONUS
 (c) BUNCH (d) BOARD
19. If PALE is coded as 2134, EARTH is coded as 41590, how is PEARL coded in that code?
 (a) 29530 (b) 24153
 (c) 25413 (d) 25430
20. Which one of the following is correct ?
 $6^* 4^* 9^* 15$
 (a) x, =, - (b) x, -, =
 (c) =, x, - (d) -, x, =

Directions (21-22): In each of the following questions, find the missing number from the given responses.

21.

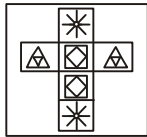
5	20	6	9
4	8	15	3
9	25	7	9
22	7	8	?

- (a) 7 (b) 8
 (c) 9 (d) 10
22. $341 \quad (16) \quad 521$
 $613 \quad (25) \quad 816$
 $452 \quad (?) \quad 326$
 (a) 27 (b) 22
 (c) 30 (d) 41
23. Ravi started walking from his houses east direction to Bus stop which is 3 km away. Then he set off in the bus straight to-wards his right to the school 4 km away. What is the crow flight distance from his house to the school ?
 (a) 1 km (b) 5 km
 (c) 7 km (d) 12 km
24. Raju moved to his North-West side for 2 km. From there he turned 90° clockwise and moved 2 km. From there he turned 90° clockwise and travelled 2 km then he would be in which direction from the original position ?
 (a) South East Region
 (b) North East Region
 (c) South West Region
 (d) Western Region

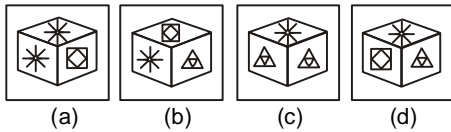
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25. Choose from the four answer figures the figure that will be formed when question figure is folded into a box.

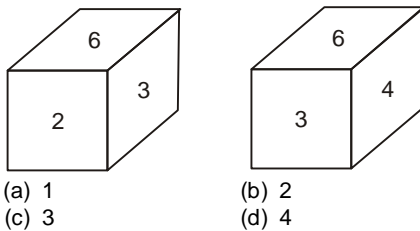
Question Figure



Answer Figures



26. Two positions of a cube are given. Based on them find out which number is found opposite number 4 in a given cube ?



Directions: In question No. 27, a statement is followed by two conclusions I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statements. Indicate your answer.

27. **Statements:** Happiness derived from external materials is momentary. Ever lasting happiness has to come from within.

Conclusions:

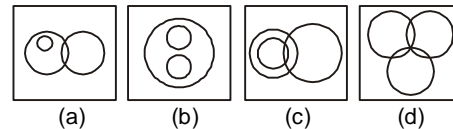
- (I) Nobody can experience happiness from outside.
 (II) Happiness experienced from cinema is not lasting.
 (a) Only I follows
 (b) Only II follows
 (c) Neither I nor II follow
 (d) Both I and II follow

Directions: In question No. 28 a statement is given followed by four conclusions (a) to (d). You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which one of the given conclusions are definitely drawn from the given statement.

28. "All the members of the Tennis club are members of the Badminton club too." "No woman plays Badminton".

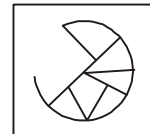
- (a) Some women play Tennis
 (b) No member of the Tennis club plays Badminton
 (c) Some women are members of the Tennis club
 (d) No woman is a member of the Tennis club

29. Select the diagram which best represents the relationship between educated people, unemployed and teachers.

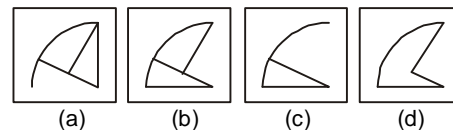


30. Which Answer figure will complete the Question figure ?

Question Figure



Answer Figures



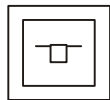
- 31.

A above diagram represents school children, artists and singers. Study the diagram and identify the region which represents those school children who are artists and not singers.

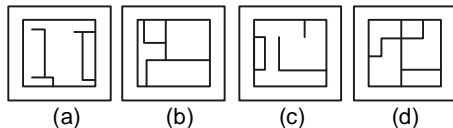
- (a) a (b) b
(c) f (d) e

Direction: In question no.32, from the Answer figures, select the one in which the question figure is hidden/embedded.

32. Question Figure



Answer Figure



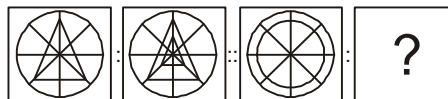
Directions (33-42): In each of the following questions select the related letters/word/number/figure from the alternatives.

33. Framework : House :: Skeleton : ?
 (a) Ribs (b) Skull
 (c) Body (d) Grace
34. Editor : Magazine :: ? : ?
 (a) Novel : Writer (b) Poem : Poet
 (c) Chair : Carpenter (d) Director : Film
35. MAT : NCW :: APE : ?
 (a) CRH (b) BRH
 (c) BSG (d) BSH
36. ADBC :: WZXY :: EHFG : ?
 (a) SVTU (b) STUV
 (c) TUSV (d) STVU
37. KITCAT : CATCIK :: PENTOP
 (a) TOPPEN (b) TOPNEP
 (c) POPTEN (d) POPNET
38. 01:36::2:?
 (a) 69 (b) 49
 (c) 81 (d) 70
39. 136 : 469:: 247 : ?
 (a) 137 (b) 358
 (c) 368 (d) 146

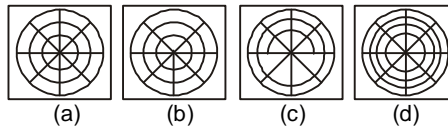
40. DE : 10:: HI: ?

- (a) 17 (b) 20
(c) 36 (d) 46

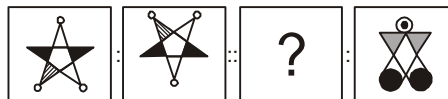
41. Question Figures



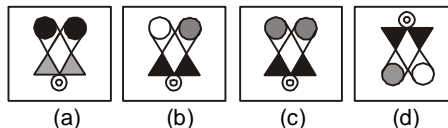
Answer Figure



42. Question Figure



Answer Figure

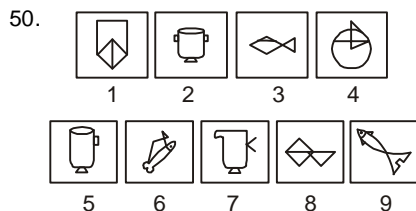


Directions (43-49): In each of the following questions find the odd word/letters/number/figure from the given responses.

43. (a) Fashion - style
 (b) Fond - affectionate
 (c) Old - ancient
 (d) Master - servant
44. (a) Dinosaur (b) Sphinx
 (c) Unicorn (d) Mermaid
45. (a) Intimacy (b) Attachment
 (c) Friendship (d) Enmity
46. (a) MNXY (b) ABPQ
 (c) RSTU (d) EFMN
47. (1) 1 (b) 16
 (c) 81 (d) 243
48. (1) 1023 - 1046 (b) 1169 - 1192
 (c) 1494 - 1517 (d) 1899 - 1921
49. (a) (b) (c) (d)

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Direction: A series of figures is given which can be grouped into classes. Select the group into which the figures can be classified from the given responses.



- (a) 1 3 4, 4 2 5, 6 7 8
 (b) 1 4 8, 2 5 7, 3 6 9
 (c) 2 5 6, 3 4 8, 1 7 9
 (d) 3 4 8, 2 3 5, 1 6 7

GENERAL AWARENESS

51. Why two thin shirts can keep us warmer than a single thick shirt in winter ?
 (a) Two thin shirts become thicker so prevent transmission of heat
 (b) Air layer between two shirts works as good conductor
 (c) Air layer between two shirts behaves like insulating media
 (d) No radiation of heat takes place
52. Which layer of the earth's atmosphere reflect back the radio waves to the earth's surface ?
 (a) ionosphere (b) stratosphere
 (c) mesosphere (d) exosphere
53. Sound cannot pass through
 (a) water (b) steel
 (c) air (d) vacuum
54. Water is not effective in extinguishing a fire caused by petrol because
 (a) the flame is too hot for water to cool it down
 (b) water and petrol react chemically
 (c) water and petrol are miscible with each other
 (d) water and petrol are immiscible with each other and petrol which forms the upper layer continues to burn
55. Helium gas is used in gas balloons instead of hydrogen gas because it is
 (a) lighter than hydrogen
 (b) more abundant than hydrogen
 (c) non-combustible (d) more stable
56. The gas used in the artificial ripening of fruits is
 (a) Acetylene (b) Methane
 (c) Ethane (d) Butane
57. Ruby and sapphire are oxides of
 (a) copper (b) tin
 (c) iron (d) aluminium
58. In the 53rd National Film Awards, the award for 'Best Feature Film' has gone for
 (a) 'Kaaipurush - Memories in the Mist'
 (b) 'Rang De Basanti'
 (c) Parzania (d) Paheli
59. Which of the following pairs is incorrect ?
 (a) Amirkhusro - Sarod
 (b) Bhim Sen Joshi - Vocal music
 (c) Utpal Dutt - Films
 (d) Shambhu Maharaj - Kathak
60. In a photocell light energy is converted into
 (a) potential energy (b) chemical energy
 (c) heat energy (d) electrical energy
61. The World's largest biofuel plant with production capacity of 110 million litres of fuel annually has been set up in
 (a) China (b) India
 (c) Brazil (d) U.S.A.
62. Which one of the following universities is a Central University?
 (a) Kolkata (b) Dibrugarh
 (c) Puducherry (d) Kurukshetra
63. According to WHO, the bird flu virus cannot be transmitted through food cooked beyond
 (a) 60 degrees celsius (b) 70 degrees celsius
 (c) 90 degrees Celsius (d) 100 degrees celsius
64. The science of map-making is
 (a) Cartography (b) Geography
 (c) Carpology (d) Geology
65. Who is known as 'the father of Indian missile technology'?
 (a) Dr. U.R. Rao
 (b) Dr. A.P.J. Abdul Kalam
 (c) Dr. Chidambaram (d) Dr. Homi Bhabha
66. Which of the following cities/ towns lies to the northern-most latitude ?
 (a) Patna (b) Allahabad
 (c) Pachmarhi (d) Ahmedabad

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67. Which of the following Twenty-20 Cricket Rules is not correctly stated ?
 (a) Each inning has a time limit of 75 minutes. For every over bowled after that, the batting side gets extra 6 runs
 (b) If a batsman fails to reach the crease within 90 seconds after the fall of wicket, the bowling side gets 5 penalty runs
 (c) A bowler can bowl a maximum of 6 overs per innings
 (d) Fielding restrictions are applicable for the first six overs of the innings
68. What was the mascot of the Second Asian Indoor games which were held at Macau sometime back ?
 (a) Miwiki (b) Mei Mel
 (c) Chei Chei (d) Chei Mel
69. Who is the author of "A River Sutra" ?
 (a) V. S. Naipaul (b) Nirad C. Choudhuri
 (c) Gita Mehta (d) Vikram Seth
70. Where was Asia Pacific Economic Cooperation (APEC) Summit, 2007 held ?
 (a) New Delhi (b) New York
 (c) Singapore (d) Sydney
71. Which of the following Indian banks became the first to touch a market capitalisation of Rs. 1,00,000 crore in India?
 (a) ICICI (b) HDFC
 (c) SBI (d) PNB
72. The capital of IMF is made up by contribution of the
 (a) credit (b) deficit financing
 (c) member nations (d) borrowings
73. Who among the following is a non-resident Indian ?
 (a) An Indian tourist in America
 (b) A person of Indian origin working as a Computer Engineer in America
 (c) A person of Indian origin employed in the U.N.O. office at New Delhi
 (d) The Indian manager of State Bank of India branch in London
74. Where is the National Academy of Agricultural Research Management located ?
 (a) Dehradun (b) Hyderabad
 (c) New Delhi (d) Itanagar
75. Which kind of power accounts for the, largest share of power generation in India ?
 (a) hydro-electricity (b) thermal
 (c) nuclear (d) solar
76. Who was the President of Indi-an National Congress when the Mountbatten Plan of independence was accepted ?
 (a) Jawaharlal Negro
 (b) Sandra Patel
 (c) MaulanaAzad
 (d) AcharyaJ. B. Kripalani
77. Age of a candidate to contest Par-liamentary election should not be lesser than
 (a) 18 years (b) 21 years
 (c) 25 years (d) 26 years
78. Who developed the idea that "means justify the ends"?
 (a) Kautilya
 (b) Raja Ram Mohan Roy
 (c) Swami Dayanand SaraswatI
 (d) Mahatma Gandhi
79. Who said that 'the real seat of taste is not the tongue, but the mind'?
 (a) Aurobindo Ghosh
 (b) Mahatma Gandhi
 (c) Bal GangadharT lak
 (d) Swami Vivekananda
80. Which Amendment Act intro-duced changes in the preamble to the Indian Constitution ?
 (a) the 38th Amendment Act, 1975
 (b) the 40th Amendment Act, 1976
 (c) the 42nd Amendment Act, 1976
 (d) the 44th Amendment Act, 1979
81. The interval between two sessions of either House of Parliament should not exceed
 (a) three months (b) six months
 (c) nine months (d) twelve months
82. The caves and rock-cut temples at Ellora are
 (a) Hindu and Buddhist
 (b) Buddhist and Jain
 (c) Hindu and Jain
 (d) Hindu, Buddhist and Jain
83. The original name ofTansen, the most famous musician at the court of Akbar was
 (a) Lal Kalwant (b) Banda Bahadur
 (c) Ramatanu Pande (d) Markandey Pande

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- | | |
|--|--|
| <p>84. Provincial Autonomy was one of the important features of the Act of
 (a) 1935 (b) 1919
 (c) 1909 (d) 1858</p> <p>85. The Seven Pagodas of Mahabalipuram are a witness to the art patronised by the
 (a) Pallavas (b) Pandyas
 (c) Cholas (d) Cheras</p> <p>86. Who was the Governor-general of India during the Revolt of 1857 ?
 (a) Lord Dalhousie (b) Lord Canning
 (c) Lord Mayo (d) Lord Ripon</p> <p>87. Name the clan Buddha belonged to
 (a) Gnathrikan (b) Maurya
 (c) Sakya (d) Kuru</p> <p>88. Which of the following will never get the vertical rays of the sun ?
 (a) Mumbai (b) Chennai
 (c) Thiruvananthapuram (d) Srinagar</p> <p>89. During which decade did the population of India record a negative growth rate ?
 (a) 1921-31 (b) 1911-21
 (c) 1941-51 (d) 1931-41</p> <p>90. Which one of the following is an abiotic and renewable resource?
 (a) iron ore (b) livestock
 (c) water (d) forests</p> <p>91. Of the following, the town which does not come within the National Capital Region is ?
 (a) Panipat (b) Rohtak
 (c) Khurja (d) Mathura</p> <p>92. Which river of India is called Vridha Ganga ?
 (a) Krishna (b) Godavari
 (c) Kaveri (d) Narmada</p> <p>93. The capital of Tanzania is
 (a) Nairobi (b) Lusaka
 (c) Kampala (d) Dar-es-Salaam</p> <p>94. The Andaman group and Nicobar group of islands are separated from each other by
 (a) Ten Degree Channel
 (b) Great Channel
 (c) Bay of Bengal
 (d) Andaman Sea</p> <p>95. The number of chambers in a human heart is
 (a) Four (b) Two
 (c) Three (d) Five</p> | <p>96. A universal recipient belongs to the blood group
 (a) AB (b) O (c) B (d) A</p> <p>97. The vitamin that helps in blood clotting is
 (a) Vitamin C (b) Vitamin D
 (c) Vitamin E (d) Vitamin K</p> <p>98. Which of the following is a perfect match ?
 (a) Coronary attack - vascular dilation
 (b) Atherosclerosis - blockage of arteries
 (c) Hypertension - low blood pressure
 (d) Hypotension - heart attack</p> <p>99. Which of the following is correct about cold blooded animals ?
 (a) Their blood remains cold all the time
 (b) Their body temperature changes in accordance with the atmosphere
 (c) Their body temperature remains constant all the time
 (d) They kill all the animals they come across</p> <p>100. 'IC Chips' for computers are usually made of
 (a) Chromium (b) Silicon
 (c) Lead (d) Copper</p> |
|--|--|

NUMERICAL APTITUDE

101. If a sum of money at simple interest doubles in 12 years, the rate of interest per annum is
 (a) 16 2/3 % (b) 7.5%
 (c) 8 1/3 % (d) 10%
102. Out of Rs. 50,000, that a man has, he lends Rs. 8000 at 5% per annum simple interest and Rs. 24,000 at 6 % per annum simple interest. He lends the remaining money at a certain rate of interest so that he gets total annual interest of Rs. 3680. The rate of interest per annum, at which the remaining money is lent, is
 (a) 5% (b) 7%
 (c) 10% (d) 12%
103. In what time will Rs. 10,000 amount to Rs. 13310 at 20% per annum compounded half yearly?
 (a) 12 months (b) 2 years
 (c) 2 1/2 years (d) 3 years
104. At a certain rate per annum, the simple interest on a sum of money for one year is Rs. 260 and the compound interest on the same sum for two years is Rs. 540.80. The rate of interest per annum is
 (a) 4% (b) 6% (c) 8% (d) 10%

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105. A certain sum of money yields Rs.1261 as compound interest for 3 years at 5% per annum. The sum is
(a) Rs. 9000 (b) Rs. 8400
(c) Rs. 7500 (d) Rs. 8000
106. The simple interest on a sum of money at 4% per annum for 2 years is Rs. 80. The compound interest in the same sum for the same period is
(a) Rs. 82.60 (b) Rs. 82.20
(c) Rs. 81.80 (d) Rs. 81.60
107. A shopkeeper marks his goods 30% above his cost price but allows a discount of 10% at the time of sale. His gain is
(a) 21% (b) 20%
(c) 18% (d) 17%
108. An article is listed at Rs. 920. A customer pays Rs. 742.90 for it after getting two successive discounts. If the rate of first discount is 15%, the rate of 2nd discount is
(a) 10% (b) 5%
(c) 8% (d) 12%
109. An article is sold at a discount of 20% and an additional discount of 30% is allowed on cash payment. If Vidya purchased the article by paying Rs. 2240 in cash, the marked price of the article was
(a) Rs. 4000 (b) Rs. 4368
(c) Rs. 4400 (d) Rs. 4480
110. A retailer purchases a grinder at a discount of 15% and sells it for Rs. 1955 at a profit of 15%. The amount of discount received by the retailer from the wholesaler was
(a) Rs. 270 (b) Rs. 290
(c) Rs. 300 (d) Rs. 330
111. A shopkeeper earns a profit of 12% on selling a book at 10% discount on the printed price. The ratio of the cost price and the printed price of the book is
(a) 99 : 125 (b) 25 : 37
(c) 50 : 61 (d) 45 : 56
112. Working 5 hours a day, A can complete a work in 8 days and working 6 hours a day, B can complete the same work in 10 days. Working 8 hours a day, they can jointly complete the work in
(a) 3 days (b) 4 days
(c) 4.5 days (d) 5.4 days
113. 40 men can complete a work in 40 days. They started the work together. But at the end of each 10th day, 5 men left the job. The work would have been completed in
(a) $56\frac{2}{3}$ days (b) $53\frac{1}{3}$ days
(c) 52 days (d) 50 days
114. If two persons, with equal abilities, can do two jobs in two days, then 100 persons with equal abilities can do 100 similar jobs in
(a) 100 days (b) 10 days
(c) 5 days (d) 2 days
115. A tank has a leak which would empty the completely filled tank in 10 hours. If the tank is full of water and a tap is opened which admits 4 litres of water per minute in the tank, the leak takes 15 hours to empty the tank. How many litres of water does the tank hold ?
(a) 2400 (b) 4500
(c) 1200 (d) 7200
116. A can do a piece of work in 18 days and B in 12 days. They began the work together, but B left the work 3 days before its completion. In how many days, in all, was the work completed ?
(a) 12 (b) 10 (c) 9.6 (d) 9
117. Ganga and Saraswati, working separately can now a field in 8 and 12 hours respectively. If they work in stretches of one hour alternately, Ganga beginning at 9 a.m., when will the moving be completed ?
(a) 6 p.m. (b) 6.30 p.m.
(c) 5 p.m. (d) 5.30 p.m.
118. A and B started at the same time from the same place for a certain destination. B walking at $\frac{5}{6}$ of A's speed reached the destination 1 hour 15 minutes after A. B reached the destination in
(a) 6 hours 45 minutes (b) 7 hours 15 minutes
(c) 7 hours 30 minutes (d) 8 hours 15 minutes
119. Two trains started at the same time, one from A to B and the other from B to A. If they arrived at B and A respectively 4 hours and 9 hours after they passed each other, the ratio of the speeds of the two trains was
(a) 2 : 1 (b) 3 : 2
(c) 4 : 3 (d) 5 : 4

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120. Two trains of equal length, running in opposite directions, pass a pole in 18 and 12 seconds. The trains will cross each other in
 (a) 14.4 seconds (b) 15.5 seconds
 (c) 18.8 seconds (d) 20.2 seconds
121. Two men start together from the same place in the same direction to go round a circular path. If one takes 10 minutes and the other takes 15 minutes to make one complete round they will meet after
 (a) 30 minutes (b) 33 minutes
 (c) 40 minutes (d) 45 minutes
122. A moving train crosses a man standing on a platform and a bridge 300 metres long in 10 seconds and 25 seconds respectively. What will be the time taken by the train to cross a platform 200 metres long ?
 (a) 16 3 seconds (b) 18 seconds
 (c) 20 seconds (d) 22 seconds
123. A man takes 6 hours 15 minutes in walking a distance and riding back to the starting place. He could walk both ways in 7 hours 45 minutes. The time taken by him to ride both ways, is
 (a) 4 hours (b) 4 hours 30 minutes
 (c) 4 hours 45 minutes (d) 5 hours
124. A man goes downstream with a boat to some destination and returns upstream to his original place in 5 hours. If the speed of the boat in still water and the stream are 10 km/hr and 4 km/hr respectively, the distance of the destination from the starting place is
 (a) 16 km (b) 18 km (c) 21 km (d) 25 km
125. A person can row $7\frac{1}{2}$ km an hour in still water. He finds that it takes twice the time to row upstream than the time to row downstream. The speed of the stream is
 (a) 2 km/hour (b) 2.5 km/hour
 (c) 3 km/hour (d) 4 km/hour
126. A businessman sells a commodity at 10% profit. If he had bought it at 10% less and sold it for Rs. 2 less, then he would have $16\frac{2}{3}\%$ gained. The cost price of the commodity is
 (a) Rs.32 (b) 88.36
 (c) Rs.40 (d) Rs.48
127. One trader calculates the percentage of profit on the buying price and another calculates on the selling price. When their selling prices are the same, then the difference of their actual profits is Rs. 85 and both claim to have made 20% profit. What is the selling price of each ?
 (a) Rs. 1700 (b) Rs. 2100
 (c) Rs. 2550 (d) Rs. 2750
128. A sells a article to B at a profit of 10% B sells the article back to A at a loss of 10%. In this transaction
 (a) A neither loses nor gains
 (b) A makes a profit of 11
 (c) A makes a profit of 20%
 (d) B loses 20%
129. The ratio, in which tea costing Rs. 192 per kg is to be mixed with tea costing Rs. 150 per kg so that the mixed tea, when sold for Rs. 194.40 per kg, gives a profit of 20%, is
 (a) 2 : 5 (b) 3 : 5
 (c) 5 : 3 (d) 5 : 2
130. If the selling price of an article is doubled, then its loss per cent is converted into equal profit per cent. The loss per cent on the article is .
 (a) $26\frac{2}{3}\%$ (b) 33%
 (c) $33\frac{1}{3}\%$ (d) 34%
131. On the basis of selling price of an article, the loss is calculated to be 25%. The percentage of loss on the basis of cost price is
 (a) 18 (b) 20
 (c) 22 (d) 25
132. If the difference between areas of the circumcircle and the in-circle of an equilateral triangle is 44 cm², then the area of the triangle is $\left(\text{Take } \pi = \frac{22}{7} \right)$
 (a) 28 cm² (b) $7\sqrt{3}$ cm²
 (c) $14\sqrt{3}$ cm² (d) 21 cm²
133. A wire, when bent in the form of a square, encloses a region having area 121 cm². if the same wire is bent into the form of a circle, then

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- the area of the circle is $\left(\text{Take } \pi = \frac{22}{7} \right)$
- (a) 144 cm² (b) 180 cm²
 (c) 154 cm² (d) 1176 cm²
134. If the area of a circle inscribed in a square is 97π cm², then the area of the square is
 (a) 24 cm² (b) 30 cm²
 (c) 36 cm² (d) 81 cm²
135. The total surface area of a solid hemisphere is 1087π cm². The volume of the hemisphere is
 (a) 727π cm³ (b) 144π cm³
 (c) $108\sqrt{6}$ cm³ (d) $54\sqrt{6}$ cm³
136. ABC is an equilateral triangle of side 2 cm. With A, B, C as centres and radius 1 cm three arcs are drawn. The area of the region within the triangle bounded by the three arcs is
 (a) $\left(3\sqrt{3} - \frac{\pi}{2} \right)$ cm² (b) $\left(\sqrt{3} - \frac{3\pi}{2} \right)$ cm²
 (c) $\left(-\frac{\pi}{2} \right)$ cm² (d) $\left(\frac{\pi}{2} - \sqrt{3} \right)$ cm²
137. If S denotes the area of the curved surface of a right circular cone of height h and semi-vertical angle α then S equals
 (a) $\pi h^2 \tan^2 \alpha$ (b) $\frac{1}{3} \pi h^2 \tan^2 \alpha$
 (c) $\pi h^2 \sec \alpha \tan \alpha$ (d) $\frac{1}{3} \pi h^2 \sec \alpha \tan \alpha$
138. The ratio of the volume of a cube to that of a sphere, which will exactly fit inside the cube, is
 (a) 6 : π (b) 4 : π
 (c) 5 : 3π (d) 4 : 3
139. A solid metallic sphere of radius 8 cm is melted to form 64 equal small solid spheres. The ratio of the surface area of this sphere to that of a small sphere is
 (a) 4 : 1 (b) 1 : 16
 (c) 16 : 1 (d) 1 : 4
140. The volume of the metal of a cylindrical pipe is 748 cm³. The length of the pipe is 14cm and its external radius is 9 cm. Its thickness is
 $\left(\text{Take } \pi = \frac{22}{7} \right)$
 (a) 1 cm (b) 5.2 cm
 (c) 2.3 cm (d) 3.7 cm
141. Two iron shots each of diameter 6 cm are immersed in the water contained in a cylindrical vessel of radius 6 cm. The level of the water in the vessel will be raised by
 (a) 1 cm (b) 2 cm
 (c) 3 cm (d) 6 cm
- Directions (142-145):** The table given below depicts the export of a commodity through four ports in the years 1998 and 1999.
- Study the table and answer the questions.**
- | Port | Export in 1998
(in crore rupees) | Export in 1999
(in crore rupees) |
|------|-------------------------------------|-------------------------------------|
| A | 57 | 61 |
| B | 148 | 160 |
| C | 229 | 234 |
| D | 146 | 150 |
142. The percentage increase in the export of the commodity from the year 1998 to 1999 was the highest from which port ?
 (a) A (b) B (c) C (d) D
143. What was the change in the aggregate export of the commodity in the year 1999 as compared to the year 1998 ?
 (a) Nearly 4.3% increase
 (b) Nearly 4.3% decrease
 (c) Nearly 0.04% increase
 (d) Nearly 0.04% decrease
144. What was the average increase in the export of the commodity from the ports in the year 1999 as compared to the year 1998 ?
 (a) Rs. 82500000 (b) Rs. 80000000
 (c) Rs. 75000000 (d) Ps. 62500000
145. The percentage increase in the export of the commodity from the year 1998 to 1999 was the lowest from which port ?
 (a) A (b) B (c) C (d) D
146.
$$\frac{(5.624)^3 + (4.376)^3}{5.624 \times 5.624 - (5.624 \times 4.376) + 4.376 \times 4.376}$$

 (a) 10 (b) 1.248
 (c) 20.44 (d) 1

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147. If $x - \frac{1}{x} = 4$ then $\left(x + \frac{1}{x}\right)$ is equal to
 (a) $5\sqrt{2}$ (b) $2\sqrt{5}$
 (c) $4\sqrt{2}$ (d) $4\sqrt{5}$
148. The next number of the sequence 2, 6, 12, 20, 30, 42, 56, ___ is
 (a) 60 (b) 64 (c) 68 (d) 72
149. $\left(1 - \frac{1}{2}\right)\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right) \dots \left(1 - \frac{1}{n-1}\right)\left(1 - \frac{1}{n}\right)$ is equal to
 (a) $\frac{1}{2n}$ (b) $\frac{1}{5n}$ (c) $\frac{1}{3n}$ (d) $\frac{1}{n}$
150. $\frac{137 \times 137 + 137 \times 133 + 133 \times 133}{137 \times 137 \times 137 - 133 \times 133 \times 133}$ is equal to
 (a) 4 (b) 270
 (c) $\frac{1}{4}$ (d) $\frac{1}{270}$
151. $\left[\frac{\sqrt{3} + \sqrt{2}}{\sqrt{3} - \sqrt{2}} - \frac{\sqrt{3} - \sqrt{2}}{\sqrt{3} + \sqrt{2}}\right]$ simplifies to
 (a) $2\sqrt{6}$ (b) $4\sqrt{6}$
 (c) $2\sqrt{3}$ (d) $3\sqrt{2}$
152. How many numbers between 1000 and 5000 are exactly divisible by 225?
 (a) 16 (b) 18 (c) 19 (d) 12
153. Which term of the sequence $\frac{1}{2}, -\frac{1}{4}, \frac{1}{8}, -\frac{1}{16}, \dots$ is $-\frac{1}{256}$?
 (a) 9th (b) 8th (c) 7th (d) 5th
154. Given that $1^2 + 2^2 + 3^2 + \dots + n^2 = \frac{n}{6}(n+1)(2n+1)$, then $10^2 + 11^2 + 12^2 + \dots + 20^2$ is equal to
 (a) 2616 (b) 2585
 (c) 3747 (d) 2555
155. The smallest number, which when divided by 5, 10, 12 and 15, leaves remainder 2 in each case; but when divided by 7 leaves no remainder, is
 (a) 189 (b) 182
 (c) 175 (d) 91
156. A number consists of two digits. If the number formed by inter-changing the digits is added to the original number, the resulting number (i.e. the sum) must be divisible by
 (a) 11 (b) 9
 (c) 5 (d) 3
157. If $(125)^x = 3125$, then the value of x is
 (a) $\frac{1}{5}$ (b) $\frac{3}{5}$ (c) $\frac{5}{3}$ (d) $\frac{5}{7}$
158. The sum of two numbers is 216 and their HCF is 27. How many pairs of such numbers are there?
 (a) 1 (b) 2 (c) 3 (d) 0
159. A number when divided by 119 leaves remainder 19. If the same number is divided by 17, the remainder will be
 (a) 12 (b) 10 (c) 7 (d) 2
160. Which of the following numbers is the greatest?
 $\sqrt{2}, \sqrt[3]{3}, \sqrt[4]{4}, \sqrt[5]{5}$
 (a) $\sqrt{2}$ (b) $\sqrt[3]{3}$
 (c) $\sqrt[4]{4}$ (d) $\sqrt[5]{5}$
161. $\left[(50)^3 + (-30)^3 + (-20)^3\right]$ is equal to
 (a) 170000 (b) -15000
 (c) 90000 (d) -90000
162. What is $5^{\frac{1}{2}}, 5^{\frac{1}{4}}, 5^{\frac{1}{8}} \dots$ equal to?
 (a) 6 (b) 1
 (c) 0 (d) 5
163. $\left[\frac{3\sqrt{2}}{\sqrt{3} + \sqrt{6}} - \frac{4\sqrt{3}}{\sqrt{6} + \sqrt{2}} + \frac{\sqrt{6}}{\sqrt{2} + \sqrt{3}}\right]$ is simplified to
 (a) $\sqrt{6}$ (b) $\sqrt{3}$
 (c) $\sqrt{2}$ (d) 0
164. The first day of the year 1998 was Thursday. On what day of the week would the last day of the year 2001 fall?
 (a) Monday (b) Sunday
 (c) Saturday (d) Tuesday

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165. The largest number of five digits, which is a perfect square is
 (a) 99999 (b) 99976
 (c) 99856 (d) 99764
166. The sum of first 50 odd natural numbers is
 (a) 1000 (b) 1250
 (c) 5200 (d) 2500
167. $\frac{(998)^2 - (997)^2 - 45}{(98)^2 - (97)^2}$ equals
 (a) 1995 (b) 195
 (c) 95 (d) 10
168. The product of the LCM and the HCF of two numbers is 24. If the difference of the numbers is 2, then the greater of the number is
 (a) 3 (b) 4
 (c) 6 (d) 8
169. If $5^{\sqrt{x}} + 12^{\sqrt{x}} = 13^{\sqrt{x}}$, then x is equal to
 (a) $\frac{25}{4}$ (b) 4
 (c) 9 (d) 16
170. The wrong number in the sequence 1, 8, 27, 84, 125, 216, 343 is
 (a) 1 (b) 27
 (c) 84 (d) 216
171. A number when divided by 5 leaves a remainder 3. What is the remainder when the square of the same number is divided by 5?
 (a) 1 (b) 2
 (c) 3 (d) 4
172. Two numbers are in the ratio 3 : 4. If their LCM is 240, the smaller of the two number is
 (a) 100 (b) 80
 (c) 60 (d) 50
173. By how much does $\frac{9}{7}$ exceed $\frac{6}{7}$?
 (a) $6\frac{3}{4}$ (b) $6\frac{1}{8}$
 (c) $6\frac{3}{28}$ (d) $7\frac{3}{4}$
174. The first odd number is 1, the second odd number is 3, the third odd number is 5 and so on. The 200th odd number is
 (a) 399 (b) 421
 (c) 357 (d) 599
175. Only two entries are known of the following Arithmetic progression :
 —, 5, —, —, 14, —, ...
 What should be the number just after 14 ?
 (a) 17 (b) 18
 (c) 19 (d) 20
176. The average of 30 numbers is 12. The average of the first 20 of them is 11 and that of the next 9 is 10. The last number is
 (a) 60 (b) 45
 (c) 40 (d) 50
177. The present average age of a family of four members is 36 years. If the present ago of the youngest member of the family be 12 years, the average age of the family at the birth of the youngest number was
 (a) 48 years (b) 40 years
 (c) 32 years (d) 24 years
178. The average of eight numbers is 20. If the sum of first two numbers is 31, the average of the next three numbers is $21\frac{1}{3}$ and the Seventh and eighth numbers exceed the sixth number by 4 and 7 respectively, then the eighth number is
 (a) 20 (b) 25
 (c) 21.6 (d) 25.3
179. The bowling average of a cricketer was 12.4. He improves his bowling average by 0.2 points when he takes 5 wickets for 26 runs in his last match. The number of wickets taken by him before the last match was
 (a) 125 (b) 150
 (c) 175 (d) 200
180. A train covers a distance of 3584 km in 2 days 8 hours. If it covers 1440 km on the first day and 1608 km on the second day, by how much does the average speed of the train for the remain-ing part of the journey differ from that for the entire journey ?
 (a) 3 km/hour more (b) 3 km/hour less
 (c) 4 km/hour more (d) 5 km/hour less

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181. 65g is what per cent of 2 kg ?
 (a) $\frac{13}{4}$ (b) $\frac{65}{2}$
 (c) $\frac{15}{8}$ (d) $\frac{13}{8}$
182. In an examination 80% candidates passed in English and 85% candidates passed in Mathematics. If 73% candidates passed in both these subjects, then what per cent of candidates failed in both the subjects ?
 (a) 8 (b) 15
 (c) 27 (d) 35
183. Half of 1 per cent, written as a decimal, is
 (a) 0.2 (b) 0.02
 (c) 0.005 (d) 0.05
184. If the length of a rectangular plot of land is increased by 5% and the breadth decreased by 10%, by how much will its area change?
 (a) increase by 5.5% (b) decrease by 5.5%
 (c) decrease by 0.55% (d) No change
185. If the price of a commodity is increased by 50% by what fraction must its consumption be reduced so as to keep the same expenditure on its consumption ?
 (a) $\frac{1}{4}$ (b) $\frac{1}{3}$ (c) $\frac{1}{2}$ (d) $\frac{2}{3}$
186. The price of sugar is reduced by 20%. Now a person can buy 500g more sugar for Rs. 36. The original price of the sugar per kilogram was
 (a) Rs. 14.40 (b) Rs. 18
 (c) Rs. 15.60 (d) Rs. 16.50
187. B got 20% marks less than A. What per cent marks did A get more than B ?
 (a) 20 (b) 25
 (c) 12 (d) 80
188. The population of a town increases every year by 4%. If its present population is 50,000, then after 2 years it will be
 (a) 53,900 (b) 54,000
 (c) 54,080 (d) 54,900
189. If $a : b : c = 3 : 4 : 7$, then the ratio $(a + b + c) : c$ is equal to
 (a) 2 : 1 (b) 14 : 3
 (c) 7 : 2 (d) 1 : 2
190. The present ages of A and B are in the ratio 4 : 5 and after 5 years they will be in the ratio 5 : 6. The present age of A is
 (a) 10 years (b) 20 years
 (c) 25 years (d) 40 years
191. An alloy contains zinc, copper and tin in the ratio 2 : 3 : 1 and another contains copper, tin and lead in the ratio 5 : 4 : 3. If equal weights of both alloys are melted together to form a third alloy, then the weight of lead per kg in the new alloy will be
 (a) $\frac{1}{2}$ kg (b) $\frac{1}{8}$ kg (c) $\frac{3}{14}$ kg (d) $\frac{7}{9}$ kg
192. In a 729 litres mixture of milk and water, the ratio of milk to water is 7 : 2. To get a new mixture containing milk and water in the ratio 7 : 3, the amount of water to be added is
 (a) 81 litres (b) 71 litres
 (c) 56 litres (d) 50 litres
193. Rama's expenditures and savings are in the ratio 5 : 3. If her in-come increases by 12% and expenditure by 15%, then by how much per cent do her savings increase ?
 (a) 12 (b) 7
 (c) 8 (d) 13
194. The number of students in 3 classes are in the ratio 2 : 3 : 4. If 12 students are increased in each class, this ratio changes to 8 : 11 : 14. The total number of students in the three classes in the beginning was
 (a) 162 (b) 108
 (c) 96 (d) 54
195. A, B and C started a business by investing Rs. 40500, Rs. 45000 and Rs. 60000 respectively. After 6 months C withdrew Rs. 15000 while A invested Rs. 4500 more. In annual profit of Rs. 56100, the share of C will exceed that of A by
 (a) Rs. 900 (b) Rs. 1100
 (c) Rs. 3000 (d) Rs. 3900
196. In 40 litres mixture of milk and water the ratio of milk to water is 7 : 1. In order to make the ratio of milk and water 3 : 1, the quantity of water (in litres) that should be added to the mixture will be
 (a) 6 (b) $6\frac{1}{2}$ (c) $6\frac{2}{3}$ (d) $6\frac{3}{4}$

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197. In what ratio must a mixture of 30% alcohol strength be mixed with that of 50% alcohol strength so as to get a mixture of 45% alcohol strength ?
 (a) 1 : 2 (b) 1 : 3
 (c) 2 : 1 (d) 3 : 1
198. A box has 210 coins of denominations one-rupee and fifty paise only. The ratio of their respective values is 13: 11. The number of one-rupee coins is
 (a) 65 (b) 66
 (c) 77 (d) 78
199. Kamal took Rs. 6800 as a loan which along with interest is to be repaid in two equal annual instalments. If the rate of interest is $12\frac{1}{2}\%$, compounded annually, then the value of each instalment is
 (a) Rs. 8100 (b) Rs. 4150
 (c) Rs. 4050 (d) Rs. 4000
200. A man lent Rs. 60,000, partly at 5% and the rest at 4% simple interest. If the total annual interest is Rs. 2560, the money lent at 4% was
 (a) Rs. 40000 (b) Rs. 44000
 (c) Rs. 30000 (d) Rs. 45000

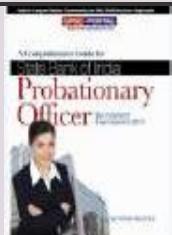
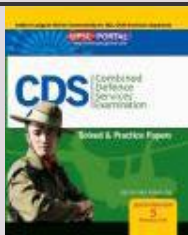
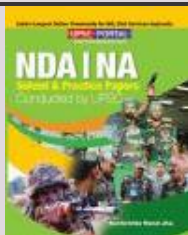
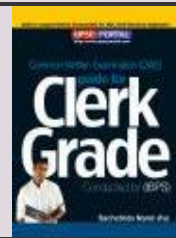
ANSWERS

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

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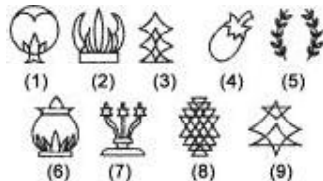
SOLVED PAPER

SSC COMBINED GRADUATE LEVEL PRELIM EXAM

Held on: 27.07.2008 (Second Sitting)

GENERAL INTELLIGENCE

1. A series of figures is given which can be grouped into classes. Select the group into which the figure can be classified from the given responses:



- (a) 1, 4, 6 ; 2, 5, 7 ; 3, 8, 9
 (b) 1, 2, 4 ; 5, 6, 7 ; 3, 8, 9
 (c) 1, 4, 6 ; 3, 8, 7 ; 2, 5, 9
 (d) 1, 2, 6 : 4, 7, 9 ; 3, 5, 8
2. From amongst the given alternatives, select the one in which the set of numbers is most like the set of numbers given below.
 (17, 13, 20)
 (a) 8, 12, 19 (b) 11, 9, 30
 (c) 8, 19, 11 (d) 5, 13, 11
3. The number of letters skipped in between adjacent letters in a series is 5. Which of the following series observes this rule ?
 (a) CIOUA (b) CINUA
 (c) CIOTA (d) CIOUZ

Directions (4-10): In each of the following questions, find the missing number/letters/figure from the given responses.

4. $\frac{D}{5}, \frac{G}{9}, \frac{J}{14}, \frac{M}{20}, ?$
 (a) 26 (b) 26 (c) 9 (d) 27

5. DWEV, FUGT, HSIR, ?

- (a) JKQP (b) JPQK
 (c) JQKP (d) JPKQ

6. 2, 15, 4, 47, 7, 118, 11, ?, ?

- (a) 260, 15 (b) 252, 16
 (c) 250, 17 (d) 254, 16

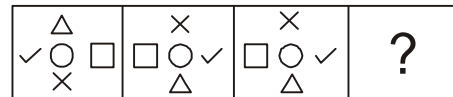
7. 313, 623, 933, 1243, ?

- (a) 1863 (b) 2173
 (c) 1553 (d) 2483

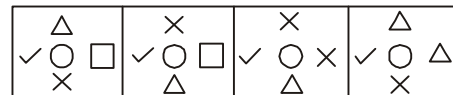
8. B2D, E3H, 14M, ?

- (a) N5R (b) N5T
 (c) N5S (d) N5Q

9. Question Figure

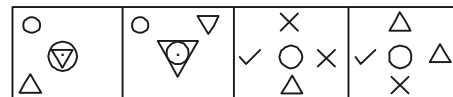


Answer Figure



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

10. Question Figure



Answer Figure



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

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11. Which set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
 a c b – c e – f –
 (a) dde (b) cde
 (c) dee (d) ddg

Directions (12-13) : In each of the following questions which one of the given responses would be a meaningful order of the following words ?

12. 1. Heel 2. Shoulder 3. Skull 4. Neck 5. Knee 6. Chest 7. Thigh 8. Stomach 9. Face 10. Hand
 (a) 3, 4, 7, 9, 2, 5, 8, 10, 6, 1
 (b) 3, 9, 4, 2, 10, 6, 8, 7, 5, 1
 (c) 2, 4, 7, 10, 1, 5, 8, 9, 6, 3
 (d) 4, 7, 10, 1, 9, 6, 3, 2, 5, 8
13. 1. Study 2. Job 3. Examination 4. Earn 5. Appointment
 (a) 1, 3, 5, 2, 4 (b) 1, 2, 3, 4, 5
 (c) 1, 3, 2, 5, 4 (d) 1, 3, 5, 4, 2
14. C is wife of B, E is the son of C, A is the brother of B and father of D. What is the relationship of E to D?
 (a) Mother (b) Sister
 (c) Brother (d) Cousin
15. A was born 5 years before B, B is 4 years older than C and 3 years younger to D. If A is now 17 years old, how old is D ?
 (a) 19 years (b) 15 years
 (c) 12 years (d) 8 years
16. Six girl are standing in a circle facing to the centre. Bindu is to the left of Vijay. Rekha is in between Bindu and Mumtaz. Jessa is in between Vijay and Nirmala. Who is to the left of Mumtaz ?
 (a) Rekha (b) Nirmala
 (c) Vijay (d) Bindu

Direction (17-18): A word/ set of letters given in capital letters is followed by four answer words. Out of these only one cannot be formed by using the letters of the given word/set of letters. Find out that word.

17. EXAMINATION
 (a) EXAMINE
 (b) NATION
 (c) NOTE
 (d) TONE

18. LEDMENTNOWGEACK
 (a) KNOWLEDGE
 (b) GENTLE
 (c) AGENCY
 (d) LODGE

19. In a code language, the following alphabets are coded in a particular way:

A C D E M S N R Q V L
 < – E > ç || w = ○○○○

Which word can be decoded from the following?.

ç < = ○○○ > ∞

- (a) MASTER (b) MENACE
 (c) MARVEL (d) MASQUE
20. If NATION is coded as 467234 and EARN is coded as 1654, then ATTENTION should be coded as
 (a) 432769561 (b) 956143654
 (c) 766412743 (d) 677147234
21. Some equations are solved on the basis of a certain system. On the basis, find out the correct answer from amongst the four alternatives for the unsolved equation $a = 4(369)9$, $b = 6(246)4$, $c = 7(?)3$
 (a) 303 (b) 213
 (c) 413 (d) 503
22. Which one of the following is correct?
 $6 * 3 * 4 * 45$
 (a) $\div, +, >$ (b) $\div, >, +$
 (c) $>, \div, +$ (d) $+, >, \div$
23. Find the missing number from
- | | | | |
|----|----|----|----|
| 4 | 9 | 17 | 6 |
| 20 | 5 | 8 | 9 |
| 7 | 23 | 9 | 9 |
| ? | 9 | 4 | 19 |
- (a) 7 (b) 9
 (c) 8 (d) 6
24. Somu travelled from a point A straight to B, a distance of 12 km. He turned right and travelled 8 km and reached point C. From that point took right turn and travelled 6 km, and reached point D. How far is he away from the starting point ?
 (a) 10 km (b) 12 km
 (c) 13 km (d) 14 km

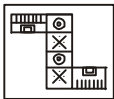
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25. A and B start from a point simultaneously. A moves to his East and travels 2 km, and B moves to his south and travels 2 km. A takes turn 90° clock-wise and travels 2 km. B takes left turn 90° anticlockwise and travels 2 km. Where would they be found from the starting point?

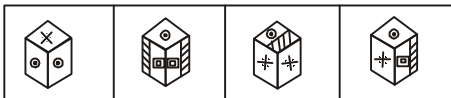
- (a) Both in South - East region
- (b) Both in East region
- (c) A in East and B in North region
- (d) A in south and B in North region

26. Choose from the four answer figures, the figure that will be formed when question figure is folded into a box.

Question Figure:



Answer Figure:



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

27. Where is the invisible number in the two positions of the same cube ?



- (a) Opposite of 2
- (b) Opposite of 3
- (c) Opposite of 4
- (d) Opposite of 6

28. A statement is given followed by two conclusions I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusions can definitely be drawn from the given statement. Indicate your answer.

Statement:

Child rearing is an art; young parents needs training in child - rearing practices.

Conclusions:

- I. Now - a - days young parents know nothing about child rearing.
- II. Training will enable the young couples become better parents.

- (a) Only I follows
- (b) Only II follows
- (c) Neither I nor II follows
- (d) Both I and II follow

29. A statement is given followed by four assumptions, (a), (b), (c) and (d). You have to consider the statement to be true, even if it seems to be variance from commonly known facts. You are to decide which of the given assumptions can definitely be drawn from the given statement. Indicate your answer.

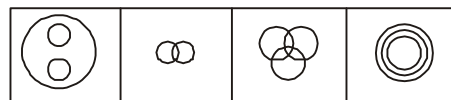
Statement:

Television has a strong influence in the young children's development.

Assumptions:

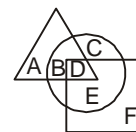
- (a) Children watching TV should be controlled by the parents.
- (b) Young Children should not be allowed to watch TV programmes
- (c) Television affects the academic progress of the young children
- (d) While developing TV programmes, educational, developmental and moral aspects of children should be taken care of

30. Identify the diagram that best represents the relationship among college students, singers and dancers.



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

31. In the given figure, the circle represents boys, the triangle represent players and the square represents rural. What portion represents rural sports boys ?

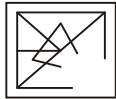


- (a) E
- (b) F
- (c) D
- (d) B

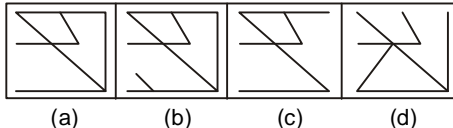
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32. Which answer figure will complete the question figure ?

Question Figure



Answer Figure

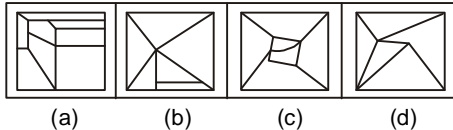


33. From the given answer figures, select the one in which the question figure is hidden/embedded.

Question Figure



Question Figure



Directions (34-44): In each following questions select the related word/letter/number/figure from the given alternatives.

34. Thread : Cloth :: Wire : ?

- (a) Rope (b) Mesh
(c) Sieve (d) Telegraph

35. Scissors : Cloth :: ?

- (a) Stone : Grinder (b) Axe : Wood
(c) Knife : Stone (d) Gun : Hunt

36. LJH : KKI :: CIA : ?

- (a) BJB (b) BBC
(c) DBB (d) CBZ

37. EGIK : FILO :: FHJL : ?

- (a) JGMP (b) JGPM
(c) GJPM (d) GJMP

38. DRIVE : EIDRV :: BEGUM : ?

- (a) EUBGM (b) MGBEU
(c) BGMEU (d) UEBGM

39. 49:81 :: 64:?

- (a) 36 (b) 100
(c) 121 (d) 144

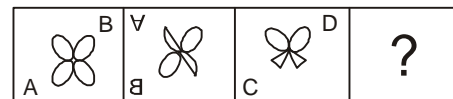
40. 371 : 150 :: 468 : ?

- (a) 247 (b) 357
(c) 246 (d) 345

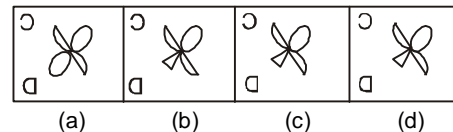
41. 42: 31 :: ?

- (a) 97: 86 (b) 53: 46
(c) 79: 86 (d) 64: 79

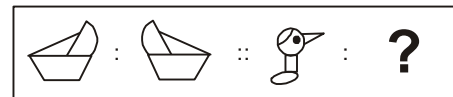
42. **Question Figures**



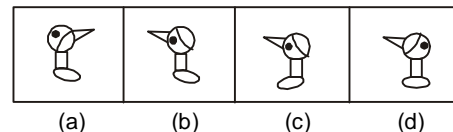
Answer Figure



43. **Question Figures**



Answer Figure



44. ADHM : ZWSN :: CFJO : ?

- (a) YVRM (b) WSPK
(c) XWTP (d) ZXVT

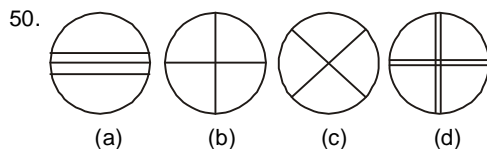
Directions (45-50): In each of the following questions find the odd word/letters/numbers/ figures from the given responses.

45. (a) Pond - Lake (b) Pistol - Gun
(c) Car - Bus (d) Church - Monument
46. (a) Diligent (b) Dignified
(c) Dissident (d) Devoted
47. (a) ADGJ (b) NQTV
(c) PSVX (d) CFIK
48. (a) 64 (b) 900
(c) 343 (d) 1000

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49. (a) 81 - 45 (b) 72 - 91
 (c) 117 - 99 (d) 135 - 126



GENERAL AWARENESS

51. The Vice President of India is elected by
 (a) the members of the Parliament
 (b) the members of the Rajya Sabha
 (c) the elected members of the Parliament
 (d) the members of the Parliament and State Legislatures
52. When was the comprehensive reorganisation of Indian States completed in accordance with the recommendations of States Re-organisation Commission ?
 (a) 1953 (b) 1956
 (c) 1960 (d) 1966
53. When Mahatma Gandhi was assassinated, who said, "None will believe that a man like this in body and soul ever walked on this earth" ?
 (a) Bertrand Russell
 (b) Leo Tolstoy
 (c) Albert Einstein
 (d) Khan Abdul Ghaffar Khan
54. Who built the Tower of Victory' (Vijay Stambha) in the Chittor Fort?
 (a) Rana Sanga (b) Rana Ratan Singh
 (c) Rana Hamir Deva (d) Rana Kumbha
55. In violation of the Salt Laws, Gandhiji started a movement called
 (a) Non-Cooperation movement
 (b) Swadeshi Movement
 (c) Civil Disobedience Movement
 (d) None of the above
56. In which of the following wars, the French were completely de-feated by the English ?
 (a) Battle of Wandiwash (b) Battle of Buxar
 (c) Battle of Plassey (d) Battle of Adyar
57. The Cabinet Mission came to India in
 (a) 1943 (b) 1944
 (c) 1945 (d) 1946
58. The first to come and last to leave India were
 (a) the Portuguese (b) the French
 (c) the English (d) the Dutch
59. IR 20 and Ratna are two important varieties of
 (a) wheat (b) bajra
 (c) jowar (d) paddy
60. The Trans-Siberian Railway (8960 km) connects _____ in the West to _____ in the East.
 (a) Moscow, Tashkent
 (b) St. Petersburg, Omsk
 (c) Moscow, Irkutsk
 (d) St. Petersburg, Vladivostok
61. Indira Gandhi Rashtriya Udan Academy is located at
 (a) Secunderabad (b) Rae Bareilly
 (c) Jodhpur (d) Delhi
62. Which one of the following rivers of Peninsular India does not join Arabian Sea ?
 (a) Periyar (b) Cauvery
 (c) Narmada (d) Tapi
63. Which one of the following correctly describes AGNI ?
 (a) A fighter plane
 (b) A versatile tank
 (c) A long-range missile
 (d) A long-range gun
64. Instrument used for measuring area on maps is called
 (a) Planimeter (b) Eidograph
 (c) Pantograph (d) Opisometer
65. If the blood group of one parent is AB and that of the other O, the possible blood group of their child would be
 (a) A or B
 (b) A or B or O
 (c) A or AB or O
 (d) A or B or AB or O
66. How many bones are there in the human body?
 (a) 187 (b) 287
 (c) 206 (d) 306
67. Dinosaurs were
 (a) mammals that became extinct
 (b) large herbivorous creatures which gave rise to hippopotamus species
 (c) egg-laying mammals
 (d) reptiles that became extinct

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68. Sweat glands in mammals are primarily concerned with
(a) removal of excess salts
(b) excretion of nitrogenous wastes
(c) thermoregulation
(d) sex-attraction
69. The vitamin that helps to prevent infections in the human body is
(a) vitamin A (b) vitamin B
(c) vitamin C (d) vitamin D
70. The normal RBC count in adult male is
(a) 5.5 million (b) 5.0 million
(c) 4.5 million (d) 4.0 million
71. A storm is predicted if atmospheric pressure
(a) rises suddenly (b) rises gradually
(c) falls suddenly (d) falls gradually
72. The gas which turns into liquid at the lowest temperature among the following is
(a) hydrogen (b) oxygen
(c) helium (d) nitrogen
73. An egg sinks in soft water but floats in a concentrated solution of salt because
(a) egg absorbs salt from the solution and expands
(b) albumin dissolves in salt solution and egg becomes lighter
(c) the density of salt solution exceeds the density of eggs
(d) water has high surface tension
74. What should a person on a freely rotating turn table do to decrease his (angular) speed ?
(a) Bring his hands together
(b) Raise his hands up
(c) Spread his hands outwards
(d) Sit down with raised hands
75. Gunpowder consists of a mixture of
(a) sand and TNT
(b) TNT and charcoal
(c) nitre, sulphur and charcoal
(d) sulphur, sand and charcoal
76. Which of the following is the sweetest sugar ?
(a) Sucrose (b) Glucose
(c) Fructose (d) Maltose
77. In nuclear reactors, graphite is used as a/an
(a) fuel (b) lubricant
(c) moderator (d) insulator
78. Which of the following celestial bodies contains abundant quantities of helium-3, a potential source of energy ?
(a) Earth (b) Moon
(c) Venus (d) Saturn
79. Which of the following International Tennis Tournaments is held on grass court ?
(a) US Open (b) French Open
(c) Wimbledon (d) Australian Open
80. What is the name of the writer of Indian origin whose novel, *The Inheritance of Loss* has bagged Man Booker Prize ?
(a) Vikram Seth (b) Kiran Desai
(c) Salman Rushdie (d) V.S. Naipaul
81. Which country from the following is a permanent member of UN Security Council ?
(a) Switzerland
(b) People's Republic of China
(c) Japan (d) Ukraine
82. The Loktak Lake on which a hydroelectric project was constructed is situated in the State of
(a) Madhya Pradesh (b) Manipur
(c) Meghalaya (d) Himachal Pradesh
83. What is the motto incorporated under our National Emblem ?
(a) Satyam Shivam
(b) Satyam Shivam Sundaram
(c) Satyameva Jayate (d) Jai Hind
84. The H5N1 virus which causes bird flu was first discovered in
(a) 1991 (b) 1995
(c) 1997 (d) 2001
85. The Southern tip of India is
(a) Cape Comorin (Kanyakumari)
(b) Point Calimere
(c) Indira Point in Nicobar Islands
(d) Kovalam in Thiruvananthapuram
86. According to a resolution adopted by the United Nations General Assembly, 'International Day of Peace' is observed every year on
(a) September 1 (b) September 14
(c) September 21 (d) September 30
87. Where was the last Asia Pacific Economic Cooperation (APEC) Summit held ?
(a) Sydney (b) Auckland
(c) New York (d) Beijing

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88. According to the UN Convention on the rights of children, which of the following is not a right ?
 (a) Safe drinking water
 (b) Adequate standard of living
 (c) Education
 (d) Marriage
89. Who is the author of Ageless Body, Timeless Mind?
 (a) V.S. Naipaul (b) Deepak Chopra
 (c) Dom Moraes (d) Tony Kushner
90. Which cricketer holds the record for scoring highest number of runs in a test match innings?
 (a) Gary Sobers (b) Vivian Richards
 (c) Sunil Gavaskar (d) Brian Lara
91. Which of the following is not considered as National Debt ?
 (a) National Savings Certificates
 (b) Long-term Government Bonds
 (c) Insurance Policies
 (d) Provident Fund
92. The main determinant of real wage is
 (a) extra earning
 (b) nature of work
 (c) promotion prospect
 (d) purchasing power of money
93. The birthrate measures the number of births during a year per
 (a) 100 population (b) 1000 population
 (c) 10000 population (d) 100000 population
94. Which of the following is not included in the National Income ?
 (a) Imputed rent of owner-occupied houses
 (b) Government expenditure on making new bridges
 (c) Winning a lottery
 (d) Commission paid to an agent for sale of house
95. Personal disposable income is
 (a) always equal to personal income
 (b) always more than personal income
 (c) equal to personal income minus indirect taxes
 (d) equal to personal income minus direct taxes
96. Who prepared the first estimate of National Income for the country ?
 (a) Central Statistical Organisation National Income Committee
 (c) Dadabhai Naoroji
 (d) National Sample Survey Organisation
97. A Bill referred to a 'Joint Sitting' of the two Houses of the Parliament is required to be passed by
 (a) a simple majority of the members present
 (b) absolute majority of the total membership
 (c) 3rd majority of the members present
 (d) 4th majority of the members present
98. Who is the constitutional head of the Government of India ?
 (a) President
 (b) Prime Minister
 (c) Chief Justice of India
 (d) Attorney General
99. Who certifies a Bill to be a Money Bill in India ?
 (a) Finance Minister
 (b) President
 (c) Speaker of the Lok Sabha
 (d) Prime Minister
100. By which Amendment were 'Fundamental Duties' added to the Constitution ?
 (a) 40th Amendment (b) 42nd Amendment
 (c) 44th Amendment (d) 45th Amendment

NUMERICAL APTITUDE

101. By how much does $(\sqrt{12} + \sqrt{18})$ exceed $(2\sqrt{3} + 2\sqrt{2})$?
 (a) 2 (b) $\sqrt{3}$
 (c) $\sqrt{2}$ (d) 3
102. The next number of the sequence 5, 10, 13, 26, 29, 58, 61, ... is
 (a) 122 (b) 120
 (c) 93 (d) 64
103. In a certain year, the average monthly income of a person was Rs. 3,400. For the first eight months of the year, his average monthly income was Rs. 3,160 and for the last five months, it was Rs. 4,120. His income in the eighth month of the year was
 (a) Rs. 3,160 (b) Rs. 5,080
 (c) Rs. 15,520 (d) Rs. 5,520

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104. The average age of 40 students of a class is 18 years. When 20 new students are admitted to the same class, the average age of the students of the class is increased by 6 months. The average age of newly admitted students is
 (a) 19 years (b) 19 years 6 months
 (c) 20 years (d) 20 years 6 months
105. Of the three numbers, the second is twice the first and thrice the third. If the average of the three numbers is 44, the largest number is
 (a) 24 (b) 72
 (c) 36 (d) 108
106. A cricketer had a certain average of runs for his 64 innings. In his 65th innings, he is bowled out for no score on his part. This brings down his average by 2 runs. His new average of runs is
 (a) 130 (b) 128
 (c) 70 (d) 68
107. A man completed a certain journey by a car. If he covered 30% of the distance at the speed of 20km/hr, 60% of the distance at 40km/hr and the remaining distance at 10km/hr; his average speed for the whole journey was
 (a) 25 km/hr (b) 28 km/hr
 (c) 30 km/hr (d) 33 km/hr
108. The time duration of 1 hour 45 minutes is what percent of a day?
 (a) 7.218 (b) 7.291
 (c) 8.3 (d) 8.24
109. In an examination, 35% of the candidates failed in Mathematics and 25% in English. If 10% failed in both Mathematics and English, then how much percent passed in both the subjects?
 (a) 50 (b) 55
 (c) 57 (d) 60
110. If $\frac{2}{3}$ of A = 75% of B = 0.6 of C, then A : B : C is
 (a) 2 : 3 : 3 (b) 3 : 4 : 5
 (c) 4 : 5 : 6 (d) 9 : 8 : 10
111. Each side of a rectangular field is diminished by 40%. By how much per cent is the area of the field diminished?
 (a) 32 (b) 64
 (c) 25 (d) 16
112. The price of sugar rise by 25%. If a family wants to keep their expenses on sugar the same as earlier, the family will have to decrease its consumption of sugar by:
 (a) 25% (b) 20%
 (c) 80% (d) 75%
113. The price of an article is reduced by 25% but the daily sale of the article is increased by 30%. The net effect on the daily sale receipts is:
 (a) $2\frac{1}{2}\%$ increase (b) $2\frac{1}{2}\%$ decrease
 (c) 2 % increase (d) 2% decrease
114. If x earns 25% more than y. What percent less does y earn than x?
 (a) 16 (b) 10
 (c) 20 (d) 25
115. The cost of an article was Rs 75. The cost was first increased by 20% and later on it was reduced by 20%. The present cost of the article is:
 (a) Rs. 72 (b) Rs. 60
 (c) Rs. 75 (d) Rs. 90
116. If A and B are in the ratio 3 : 4, and B and C in the ratio 12 : 13, then A and C will be in the ratio:
 (a) 3 :13 (b) 9 : 13
 (c) 36 :13 (d) 13 : 9
117. Four years ago, the ratio of A's age to B's age was 11 : 14 and four years later their ages will be in the ratio 13 : 16. The present age of A is:
 (a) 48 years (b) 26 years
 (c) 44 years (d) 28 years
118. In an alloy, zinc and copper are in the ratio 1 : 2. In the second alloy, the same elements are in the ratio 2 : 3. If these two alloys be mixed to form a new alloy in which two elements are in the ratio 5 : 8, the ratio of these two alloys in the new alloys is:
 (a) 3 : 10 (b) 3 : 7
 (c) 10 : 3 (d) 7 : 3
119. A jar contained a mixture of two liquids A and B in the ratio 4 : 1. When 10 litres of the mixture was taken out and 10 litres of liquid B was poured into the jar, this ratio became 2 : 3. The quantity of liquid A contained in the jar initially was:
 (a) 4 litres (b) 8 litres
 (c) 16 litres (d) 40 litres
120. The salaries of A, B and C are in the ratio 1 : 3 : 4. If the salaries are increased by 5%, 10% and

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- 15% respectively, then the increased salaries will be in the ratio:
 (a) 20 : 66 : 95 (b) 21 : 66 : 95
 (c) 21 : 66 : 92 (d) 19 : 66 : 92
121. The total marks obtained by Arun in English and Mathematics are 170. If the difference between his marks in these two subjects is 10, then the ratio of his marks in these subjects is:
 (a) 7 : 8 (b) 8 : 7
 (c) 9 : 8 (d) 9 : 7
122. A started a business with a capital of Rs. 1,00,000. One year later, B joined him with a capital of Rs 2,00,000. At the end of 3 years from the start of the business, the profit earned was 84,000. The share of B in the profit exceeded the share of A by:
 (a) Rs. 10,000 (b) Rs. 12,000
 (c) Rs. 14,000 (d) Rs. 15,000
123. In a mixture of 75 litres, the ratio of milk to water is 2 : 1. The amount of water to be further added to the mixture so as to make the ratio of the milk to water 1 : 2 will be:
 (a) 45 litres (b) 60 litres
 (c) 75 litres (d) 80 litres
124. The ratio in which two sugar solutions of the concentrations 15% and 40% are to be mixed to get a solution of concentration 30% is:
 (a) 2 : 3 (b) 3 : 2
 (c) 8 : 9 (d) 9 : 8
125. A boy has a few coins of denominations 50 paise, 25 paise and 10 paise in the ratio 1 : 2 : 3. If the total amount of the coins is Rs 6.50, the number of 10 paise coins is:
 (a) 5 (b) 10
 (c) 15 (d) 20
126. A sum of Rs 13,360 was borrowed at $8\frac{3}{4}\%$ per annum compound interest and paid back in two years in two equal annual instalments. What was the amount of each instalment ?
 (a) Rs. 5,769 (b) Rs. 7,569
 (c) Rs. 7,009 (d) Rs. 7,500
127. If Rs 12,000 is divided into two parts such that the simple interest on the first part for 3 years at 12% per annum is equal to the simple interest on the second and part for $4\frac{1}{2}$ years at 16% per annum, the greater part is:
 (a) Rs. 8,000 (b) Rs. 6,000
 (c) Rs. 7,000 (d) Rs. 7,500
128. At what rate of simple interest per annum will a sum become $\frac{7}{4}$ of itself in 4 years ?
 (a) 18% (b) $18\frac{1}{4}\%$ (c) $18\frac{3}{4}\%$ (d) $18\frac{1}{2}\%$
129. A sum of money at a certain rate per annum of simple interest doubles in the 5 years and at a different rate becomes three times in 12 years. The lower rate of interest per annum is:
 (a) 15% (b) 20% (c) $15\frac{3}{4}\%$ (d) $16\frac{2}{3}\%$
130. A certain sum, invested at 4% per annum compound interest, compounded half-yearly, amounts to Rs. 7,803 at the end of one year. The sum is:
 (a) Rs. 7,000 (b) Rs 7,200
 (c) Rs. 7,500 (d) RS 7,700
131. The difference between compound and simple interests on a certain sum for 3 years at 5% per annum is Rs. 122. The sum is:
 (a) Rs. 16,000 (b) Rs. 15,000
 (c) Rs.. 12,000 (d) Rs. 10,000
132. A certain sum amount to Rs. 5,832 in 2 years at 8% per annum compound interest, the sum is:
 (a) Rs. 5,000 (b) Rs. 5,200
 (c) Rs. 5,280 (d) Rs. 5,400
133. The compound interest on a certain sum of money at 5% per annum for 2 years is Rs. 246. The simple interest on the same sum for 3 years at 6% per annum is:
 (a) Rs. 435 (b) Rs. 450
 (c) Rs. 430 (d) Rs. 432
134. A tradesman marks his goods at 25% above the cost price and allows purchasers a discount of $12\frac{1}{2}\%$. His profit is:
 (a) 8% (b) 8.5%
 (c) 8.625% (d) 9.375%

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135. The marked price of watch was Rs. 820. A man bought the watch for Rs. 570.72 after getting two successive discounts, of which the first was 20%. The second discount was:
(a) 18% (b) 15%
(c) 13% (d) 11%
136. While selling a cooler, a shop-keeper gives a discount of 10% on the marked price. If he gives a discount of 12% he earns Rs 35 less as profit. The marked price of the cooler is:
(a) Rs. 1,650 (b) Rs. 1,625
(c) Rs. 1,725 (d) Rs. 1,750
137. A trader gains 15% after selling an item at 10% discount on the printed price. The ratio of the cost price and printed price of the item is:
(a) 18 : 23 (b) 17 : 18
(c) 17 : 23 (d) 18 : 25
138. A bicycle, marked at Rs. 2,000, is sold with two successive discount of 20% and 10%. An additional discounts of 5% is offered for cash payment. The selling price of the bicycle at cash payment is
(a) Rs. 1,368 (b) Rs. 1,468
(c) Rs. 1,568 (d) Rs. 1,668
139. If p men working p hours per day for p days produce p units of work, then the units of work produced by n men working n hours a day for n days is:
(a) $\frac{p^2}{n^2}$ (b) $\frac{p^3}{n^2}$
(c) $\frac{n^2}{p^2}$ (d) $\frac{n^3}{p^2}$
140. An empty tank can be filled by pipe 'A' in 4 hours and by pipe B in 6 hours. If the two pipes are opened for 1 hour each alternately with first opening pipe A, then the tank will be filled in:
(a) $1\frac{3}{4}$ hours (b) $2\frac{3}{5}$ hours
(c) $4\frac{2}{3}$ hours (d) $5\frac{1}{2}$ hours
141. A and B can separately complete a piece of work in 20 days and 30 days respectively. They worked together for some time, then B left the work. If A completed the rest of the work in 10 days, then B worked for:
(a) 6 days (b) 8 days
(c) 12 days (d) 16 days
142. A Boy and girl together fill a cistern with water. The boy pours 4 litres of water every 3 minutes and the girl pours 3 litres every 4 minutes. How much time will it take to fill 100 litres of water in the cistern ?
(a) 36 minutes (b) 42 minutes
(c) 48 minutes (d) 44 minutes
143. If 28 men complete $\frac{7}{8}$ of a piece of work in a week, then the number of men, who must be engaged to get the remaining work completed in another week, is:
(a) 5 (b) 6 (c) 4 (d) 3
144. While working 7 hours a day, A alone can complete a piece of work in 6 days and B alone in 8 days. In what time would they complete it together, working 8 hours a day ?
(a) 3 days (b) 4 days
(c) 2.5 days (d) 3.6 days
145. A man can row 15km/hr down-stream and 9 km/hr upstream. The speed of the boat in still water is:
(a) 8 km/hr. (b) 10 km/hr.
(c) 15 km/hr. (d) 12 km/ hr.
146. From two places, 60 km apart, A and B start towards each other at the same time and meet each other after 6 hours. Had A travelled with $\frac{2}{3}$ of his speed and B travelled with double of his speed, they would have met after 5 hours. The speed of A is:
(a) 4 km/hr. (b) 6 km/hr.
(c) 10 km/hr. (d) 12 km/hr.
147. A train, 150m long, passes a pole in 15 seconds and another train of the same length travelling in the opposite direction in 12 seconds. The speed of the second train is:
(a) 45 km./hr (b) 48 km./hr
(c) 52 km./hr (d) 54 km./hr
148. A, B, and C start together from the same place to walk round a circular path of length 12km. A walks at the rate of 4 km./hr., B km./hr and C $\frac{3}{2}$ km/hr. They will meet together at the starting place at the end of:
(a) 10 hours (b) 12 hours
(c) 15 hours (d) 24 hours

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149. A train travelling at 48 km/hr crosses another train, having half its length and travelling in opposite direction at 42 km/hr, in 12 seconds. It also passes a railway platform in 45 seconds. The length of the railway platform is:
(a) 200 m (b) 300 m
(c) 350 m (d) 400 m
150. Ravi and Ajay start simultaneously from a place A towards B, 60 km apart. Ravi's speed is 4 km/hr less than that of Ajay. Ajay, after reaching B, turns back and meets Ravi at a place 12 km away from B. Ravi's speed is:
(a) 12 km/hr (b) 10 km/hr
(c) 8 km/hr (d) 6 km/hr
151. Two boats A and B start towards each other from two places, 108 km apart. Speeds of the boats A and B in still water are 12 km/hr and 15 km/hr respectively. If A proceeds down and B up the stream, they will meet after.
(a) 4.5 hours (b) 4 hours
(c) 5.4 hours (d) 6 hours
152. In a fixed time, a boy swims double the distance along the current that he swims against the current. If the speed of the current is 3 km/hr, the speed of the boy in still water is
(a) 6 km/hr (b) 9 km/hr
(c) 10 km/hr (d) 12 km/hr
153. A person sold a horse at a gain of 15%. Had he bought it for 25% less and sold it for Rs. 600 less, he would have made a profit of 32%. The cost price of the horse was:
(a) Rs 3,750 (b) Rs 3,250
(c) Rs 2,750 (d) Rs 2,250
154. A piece of land came to a person through three middlemen each gaining 20%. If the person purchased the land for Rs. 3,45,600 the original cost of the land was:
(a) Rs. 1,00,000 (b) Rs. 1, 50, 000
(c) Rs. 1,75,800 (d) Rs. 2,00,000
155. A man sold some articles at a gain of 10%. He spent his total sale proceeds to purchase such articles again. This time, while selling them, he incurred a loss of 10%. His loss or gain in the transaction was:
(a) 1% loss (b) 1% gain
(c) no profit no loss (d) 2% loss
156. A shopkeeper bought 80 kg of sugar at the rate of Rs. 13.50 per kg. He mixed it with 120 kg of sugar costing Rs. 16 per kg. In order to make a profit of 20%, he must sell the mixture at:
(a) Rs. 18 per kg (b) Rs. 17 per kg
(c) Rs. 16.40 per kg (d) Rs. 15 per kg
157. Some toffees were bought at the rate of 11 for Rs. 10 and the same number at the rate of 9 for Rs. 10. If the whole lot was sold at one rupee per toffee, then the gain or loss in the whole transaction was:
(a) loss of 1% (b) gain of 1%
(c) neither gain nor loss
(d) gain of 1.5%
158. A merchant finds his profit as 20% of the selling price. His actual profit is:
(a) 20% (b) 22%
(c) 25% (d) 30%
159. The height of an equilateral triangle is $4\sqrt{3}$ cm. The ratio of the area of its circumcircle to that of its incircle is:
(a) 2 : 1 (b) 4 : 1
(c) 4 : 3 (d) 3 : 2
160. A wire when bent in the form of an equilateral triangle encloses a region having area of $121\sqrt{3}$ cm². If the same wire is rebent into the form of a circle, its radius will be $\left(\text{take } \pi = \frac{22}{7}\right)$
(a) 21 cm (b) 15.75 cm
(c) 10.5 cm (d) 9 cm
161. If the perimeter of a semicircular field is 144 m, then the diameter of the field is take $\pi = \frac{22}{7}$
(a) 55 m (b) 30 m (c) 28 m (d) 56 m
162. The sides of a triangle are 6 cm, 8 cm and 10 cm. The area of the greatest square that can be inscribed in it, is
(a) 18 cm² (b) 15 cm²
(c) 2304 cm² (d) 576 cm²
163. The perimeter (in metres) of a semicircle is numerically equal to its area (in square metres).
The length of its diameter is $\left(\text{take } \pi = \frac{22}{7}\right)$
(a) $3\frac{6}{11}$ metres (b) $5\frac{6}{11}$ metres
(c) $6\frac{6}{11}$ metres (d) $6\frac{2}{11}$ metres

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164. If S_1 and S_2 be the surface area of a sphere and the curved surface area of the circumscribed cylinder respectively, then S_1 is equal to

- (a) $\frac{3}{4} S_2$ (b) $\frac{1}{2} S_2$
 (c) $\frac{2}{3} S_2$ (d) S_2

165. The base of a conical tent is 19.2 metres in diameter and its height is 2.8 metres. The area (in square metres) of the canvas required to put

up such a tent is nearly $\left(\text{use } \pi = \frac{22}{7}\right)$

- (a) 3017.10 (b) 3170
 (c) 301.71 (d) 30.17

166. A solid metallic sphere of radii-; 3 decimetres is melted to form a circular sheet of 1 millimetre thickness. The diameter of the sheet so formed is

- (a) 26 metres
 (b) 24 metres
 (c) 12 metres
 (d) 6 metres

167. The height and the radius of the base of a right circular cone are 12 cm and 6cm respectively. The radius of the circular cross-section of the cone cut by a plane parallel to its base at a distance of 3 cm from the base is

- (a) 4 cm (b) 5.5 cm
 (c) 4.5 cm (d) 3.5 cm

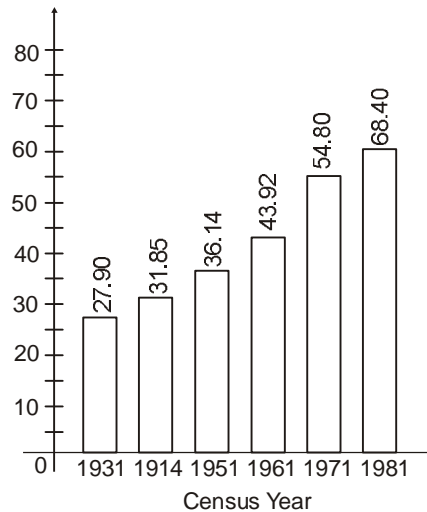
168. Water flows through a cylindrical pipe, whose radius is 7 cm, at 5 metres per second. The time, it takes to fill an empty water tank, with height 1.54 metres and area of the base (3×5) square

metres, is $\left(\text{take } \pi = \frac{22}{7}\right)$

- (a) 6 minutes
 (b) 5 minutes
 (c) 10 minutes (d) 9 minutes

Directions (169-172): The Bar Graph given here shows the population (in crores) of India in various census years. Observe the graph and answer the question based on it.

Population of India



169. The per cent increase in population from 1971 to 1981 is

- (a) 24.8 (b) 20
 (c) 16.7 (d) 22.9

170. In which census year, the per cent increase in population is highest as compared to that in the previous census year ?

- (a) 1951 (b) 1961
 (c) 1971 (d) 1981

171. In which census year, the per cent increase in population is least as compared to that in the previous census year ?

- (a) 1961 (b) 1951
 (c) 1971 (d) 1941

172. Per year increase in population from the year 1931 to 1981 is

- (a) 8100000 (b) 7600000
 (c) 8900000 (d) 6700000

173. $(0.04)^{-1.5}$ is equal to

- (a) 25 (b) 125
 (c) 60 (d) 5

174. Which term of the sequence 7, 10, 13...is 151?

- (a) 29th (b) 19th
 (c) 59th (d) 49th

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175. The sum of all the 3-digit numbers, each of which on division by 5 leaves remainder 3, is
 (a) 180 (b) 1550
 (c) 6995 (d) 99090
176. The sum of the first 20 terms of the series $\frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \frac{1}{7 \times 8} + \dots$ is
 (a) 0.16 (b) 1.6
 (c) 16 (d) 0.016
177. Given that $\sqrt{13} = 3.6$ and $\sqrt{130} = 11.4$, then the value of $\sqrt{1.3} + \sqrt{1300} + \sqrt{0.013}$ is equal to
 (a) 36.164 (b) 37.254
 (c) 36.254 (d) 37.154
178. The value of $\frac{0.125 + 0.027}{0.25 - 0.15 + 0.09}$ is
 (a) 0.2 (b) 0.25
 (c) 0.3 (d) 0.8
179. The value of $\sqrt[3]{1372} \times \sqrt[3]{1458} + \sqrt[3]{343}$ is
 (a) 18 (b) 15
 (c) 13 (d) 12
180. The HCF and product of two numbers are 15 and 6300 re-spectively. The number of pos-sible pairs of the numbers is
 (a) 4 (b) 3
 (c) 2 (d) 1
181. The sum of all the 3-digit numbers is
 (a) 98901 (b) 494550
 (c) 8991 (d) 899
182. $\sqrt{2 + \sqrt{2 + \sqrt{2 + \dots}}}$ Is equal to
 (a) 1.42 (b) 4
 (c) 2 (d) 2.414
183. Given that $1 + 2 + 3 + \dots + x = \frac{x(x+1)}{2}$ then $1 + 3 + 5 + \dots + 99$ is equal to
 (a) 2250 (b) 2500
 (c) 2525 (d) 3775
184. The value of $999 \frac{995}{999} \times 999$ is
 (a) 990809 (b) 998996
 (c) 999824 (d) 998999
185. The simplified value of $\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right)\left(1 - \frac{1}{5}\right) \dots \left(1 - \frac{1}{99}\right)\left(1 - \frac{1}{100}\right)$ is
 (a) $\frac{2}{99}$ (b) $\frac{1}{25}$
 (c) $\frac{1}{50}$ (d) $\frac{1}{100}$
186. The product of two numbers is 4107. If the HCF of the numbers is 3, the greater number is
 (a) 185 (b) 111
 (c) 107 (d) 101
187. $\frac{8(3.75)^3 + 1}{(7.5)^2 - 6.5}$ is equal to
 (a) 2.75 (b) $\frac{9}{5}$
 (c) 4.75 (d) 8.5
188. If $p = 999$, then the value of $\sqrt[3]{p(p^2 + 3p + 3)} + 1$ is
 (a) 1000 (b) 999
 (c) 998 (d) 1002
189. Which one of the following numbers is not a square of any natural number?
 (a) 17956 (b) 18225
 (c) 63592 (d) 53361
190. If $x = 1 + \sqrt{2} + \sqrt{3}$, then the value of $\left(x + \frac{1}{x-1}\right)$ is
 (a) $1 + 2\sqrt{3}$ (b) $2 + \sqrt{3}$
 (c) $3 + \sqrt{2}$ (d) $2\sqrt{3} - 1$
191. What least number must be subtracted from 1936 so that the resulting number when divided by 9, 10 and 15 will leave in each case the same remainder 7 ?
 (a) 13 (b) 36
 (c) 39 (d) 30

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192. A boy was asked to find $\frac{3}{5}$ of a fraction. Instead, he divided the fraction by $\frac{3}{5}$ and got an answer which exceeded the correct answer by $\frac{32}{75}$. The correct answer is
 (a) $\frac{3}{25}$ (b) $\frac{6}{25}$ (c) $\frac{2}{25}$ (d) $\frac{2}{15}$
193. If $x = 3 + \sqrt{8}$, then the value of $\left(x^2 + \frac{1}{x^2}\right)$ is
 (a) 34 (b) 24
 (c) 38 (d) 36
194. The LCM of two numbers is 12 times their HCF. The sum of the HCF and the LCM is 403. If one of the numbers is 93, then the other number is
 (a) 124 (b) 138 (c) 134 (d) 138
197. $\frac{1}{\sqrt{9}-\sqrt{8}} - \frac{1}{\sqrt{8}-\sqrt{7}} + \frac{1}{\sqrt{7}+\sqrt{6}}$
 $-\frac{1}{\sqrt{6}-\sqrt{5}} + \frac{1}{\sqrt{5}-\sqrt{4}}$
 (a) 5 (b) 1 (c) 3 (d) 0
198. The value of $\frac{(2.697 - 0.498)^2 + (2.697 + 0.498)^2}{2.697 \times 2.697 + 0.498 \times 0.498}$ is
 (a) 4 (b) 1
 (c) 2.199 (d) 3.195
199. How many 3-digit numbers, in all, are divisible by 6 ?
 (a) 140 (b) 150 (c) 160 (d) 170
200. A number, when divided by 899, leaves remainder 63. What will be the remainder if the same number is divided by 29 ?
 (a) 3 (b) 1 (c) 5 (d) 0

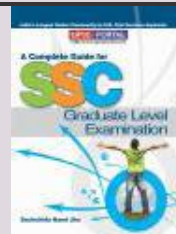
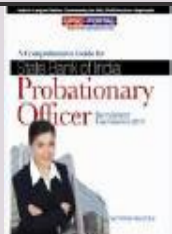
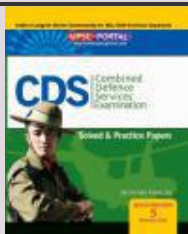
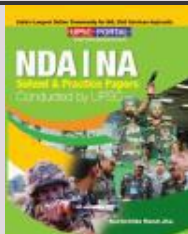
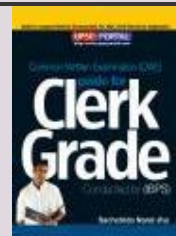
ANSWERS

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

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SOLVED PAPER

SSC COMBINED GRADUATE LEVEL PRELIM EXAM

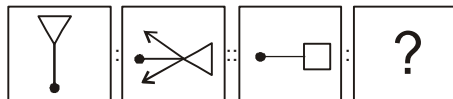
Held on: 04.02.2007

GENERAL INTELLIGENCE

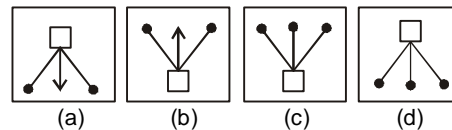
Directions (1-10): Select the related letters/word/ number/figure from the given alternatives.

1. Soldier : Regiment :: Horse : ?
 (a) Navy (b) Fleet
 (c) Cavalry (d) Herd
2. Philatelist : Stamps Numismatist : ?
 (a) Coins (b) Maps
 (c) Jewels (d) Samples
3. PHOTO : FILM :: PHOTOSTAT : ?
 (a) Photographic paper (b) Voltage controller
 (c) Electricity (d) Paper
4. IKKL : JLLM :: SUUV : ?
 (a) FFGH (b) CEFE
 (c) WXXZ (d) TVVW
5. FIGUR : FGIRU :: STRES : ?
 (a) STERS (b) TRSES
 (c) SRSET (d) SRTSE
6. 122:145 :: 226: ?
 (a) 250 (b) 256
 (c) 257 (d) 290
7. 2:4:8 : 10:20:40 :: 3:6:9 : ?
 (a) 18:27:54 (b) 5:10:17
 (c) 6:24:56 (d) 15:30:45

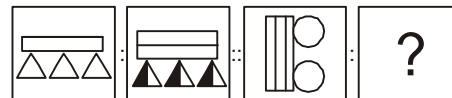
8. Question Figures



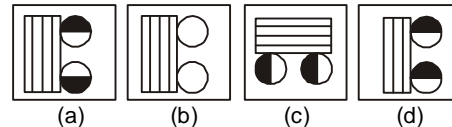
Answer Figures



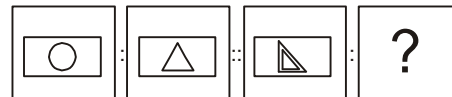
9. Question Figures



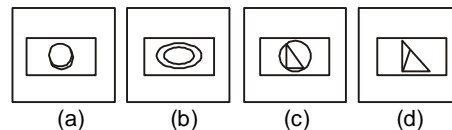
Answer Figures



10. Question Figures



Answer Figures

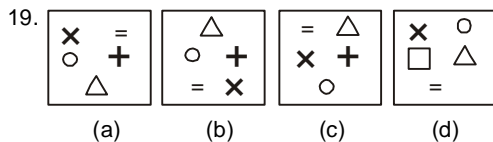
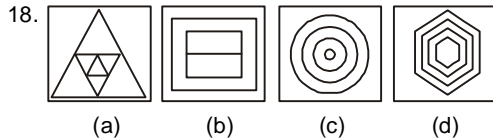


Directions (11-19): Select the odd word/letters/ number/figure/ from the given responses.

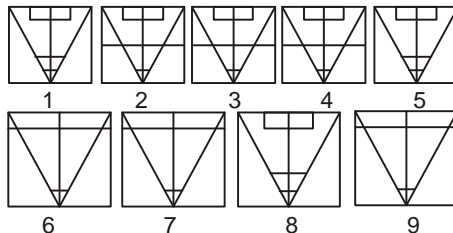
11. (a) DICTAPHONE (b) GRAMAPHONE
 (c) MICROPHONE (d) TELEPHONE

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12. (a) Running (b) Swimming
 (c) Dancing (d) Breathing
 13. (a) Quiet - Calm (b) Seldom - Never
 (c) Peace - Tranquil (d) Rapid - Slow
 14. (a) ZXVT (b) USQO
 (c) DEFG (d) PNLJ
 15. (a) AFCG (b) DIGL
 (c) INLQ (d) OTRW
 16. (a) 6 : 34 (b) 12:64
 (c) 20: 96 (d) 09: 49
 17. (a) 124 (b) 169
 (c) 225 (d) 289



20. A series of figures are given which can be grouped into classes. Select the group into which the figures can be classified from the given responses.



- (a) 1, 2, 3; 4, 5, 8; 6, 9, 7
 (b) 1, 2, 5; 3, 4, 8; 6, 7, 9
 (c) 1, 2, 6; 3, 4, 7; 5, 6, 9
 (d) 1, 5, 8; 2, 3, 4; 6, 7, 9

21. Which one would be a meaningful order of the following ?

- (a) Electricity (b) Dam
 (c) Lights (d) River
 (e) Power House
 (a) d, b, a, c, e (b) d, b, e, c, a
 (c) d, b, c, a, e (d) d, b, e, a, c

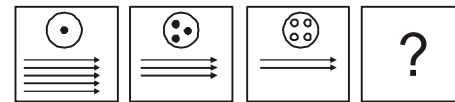
22. Arrange the following words according to the Dictionary

- (a) Trinity (b) Tool
 (c) Town (d) Twist
 (e) Type
 (a) b, c, a, d, e (b) c, a, d, b, e
 (c) b, c, a, e, d (d) d, c, b, a, e

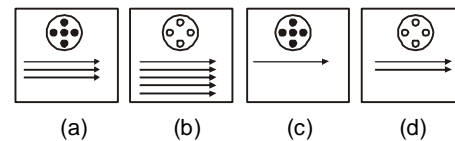
Directions (23-29): Find the missing number/letters/figure from the given responses.

23. AGM, BHN, CIO, ?
 (a) COU (b) FQK
 (c) DJP (d) QXD
 24. 2, 7, 27, 107, ?
 (a) 327 (b) 427
 (c) 227 (d) 127
 25. 5, 7, 11, 2, 35, 67
 (a) 23 (b) 28
 (c) 30 (d) 19
 26. 242, 393, 4164, ?
 (a) 5525 (b) 5255
 (c) 5235 (d) 5325

27. Question Figures



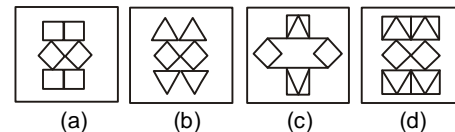
Answer Figures



28. Questions Figure

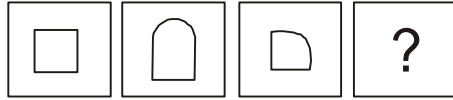


Answer Figures

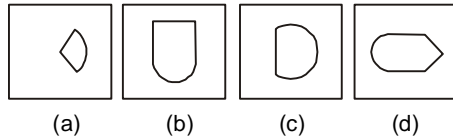


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29. Question Figures



Answer Figures



30. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

aba_baca_ba_bacaabac_aca

- (a) cacb (b) ccab
(c) cabc (d) abcc

31. In a certain code the following numbers are coded in a certain way by assigning signs:

1 2 3 4 5 6 7 8 9
+ □ × D # ÷ ≡ ^ >

Which number can be decoded from the following ?

≡ > × ^ □

- (a) 79328 (b) 79832
(c) 79382 (d) 79882

Directions (32-34): Find the missing number from the given responses.

32.

12	6	8
3	2	?
9	10	5
13	13	13

- (a) 01 (b) 0
(c) 10 (d) 11

33. $\begin{array}{cc} 42 & 37 \\ & \diagdown \quad \diagup \\ & 17 \end{array}$ $\begin{array}{cc} 11 & 84 \\ & \diagdown \quad \diagup \\ & 13 \end{array}$ $\begin{array}{cc} 74 & 93 \\ & \diagdown \quad \diagup \\ & ? \end{array}$

(a) 40 (b) 42
(c) 44 (d) 46

34. $\begin{array}{ccc} \begin{array}{cc} 0 & 3 \\ \diagdown & \diagup \\ 14 & \\ \diagup & \diagdown \\ 2 & 1 \end{array} & \begin{array}{cc} 3 & 5 \\ \diagdown & \diagup \\ 54 & \\ \diagup & \diagdown \\ 4 & 2 \end{array} & \begin{array}{cc} 3 & 1 \\ \diagdown & \diagup \\ ? & \\ \diagup & \diagdown \\ 5 & 6 \end{array} \end{array}$

(a) 35 (b) 72
(c) 94 (d) 71

35. In the following question you have to identify the correct response from the given premises stated according to following symbols.

If + means \div , - means \times , means \div and \times means -, then $63 \times 24 + 8 \div 4 + 2 - 3 = ?$

- (a) 54 (b) 66 (c) 186 (d) 48

36. A word is given in capital letters. It is followed by four words. Out of these four words, three cannot be form from the letters of the word in capital letters. Point out the word which can be formed from the letters of the given word in capital letters.

RECOMMENDATION

- (a) MEDIANE (b) MEDICINE
(c) COMMUNICATE (d) REMINDER

37. A word given in capital letters is followed by four words. Out of these only one cannot be formed by using the letters of the given word. Find out that word.

REHABILITATION

- (a) RELATION (b) BRITTLE
(c) BRITAIN (d) BROACH

38. When decoded, OPTRRE reads as PORTER. In the same way, what does the following read as ?

EROPTR

- (a) ROPE (b) PROPER
(c) PORT (d) REPORT

39. Out the six members panel sitting in a row 'U' is to the left of 'V' but on the right of 'W' who is to the right of 'X' and 'Y' is at the right of 'Z' who is to the left of 'X'. Find the members sitting right in the middle.

- (a) ZY (b) XW (c) UV (d) WV

40. The average age of 30 students is 15 years. If the teacher's age is also included then the average age increases by 1 year. The age of the teacher is

- (a) 56 years (b) 46 years
(c) 35 years (d) 45 years

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Directions: In the question two statements are given followed by two conclusions I and II. You have to consider the two statements to be true, even if they seem to be at variance from commonly known facts. You are to decide which of the given conclusion can definitely be drawn from the given statements. Indicate your answer.

41. Statements

- (I) Science has brought the gadgets gets of happiness, prosperity and wealth.
 (II) Science has not solved the problems of over-population.

Conclusions

- (a) Overpopulation is due to un-scientific thinking.
 (b) Science has not helped world peace.
 (a) 1 follows (b) 2 follows
 (c) 1 and 2 both follow
 (d) 1 and 2 both do not follow

Directions: A statement followed by two assumptions I and II is given. You have to consider the statement to be true even if it seems to be at variance from commonly known facts, You are to decide which of the given assumptions can definitely be drawn from the given statement. Indicate which one of the four given alternatives is correct.

42. Statement: Some men wear spectacles.

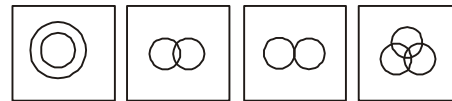
Assumptions:

- (I) They want to look handsome.
 (II) The spectacles help them to see properly.
 (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 (43-44): Kiran walks 20 m north, he turns right and walks 30 m, then he turns right and walks 35 m, then he turns left and walks 15 m, then he turns left and walks 15 m. he again turns left and walks 15 m.

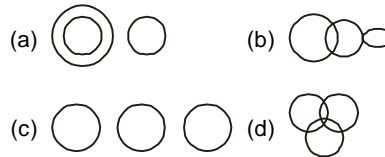
43. How far Kiran is from his starting point ?
 (a) 25 m (b) 15 m (c) 45 m (d) 30 m
 44. Which direction is Kiran facing now ?
 (a) East (b) West
 (c) North (d) South

45. How the following statement can be represented ? Solid common salt is hygro-scopic, crystalline and non-electrolytic substance.

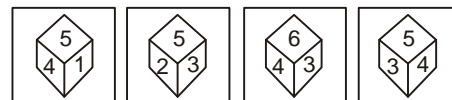


(a) (b) (c) (d)

46. Which one of the following figures represents the relationship among Zebra, Grass eating animals, Lions ?



47. Four views of one cube are given below. Each of the six faces of cube is numbered. In figure 3 which number will be opposite to the face with number 3 ?



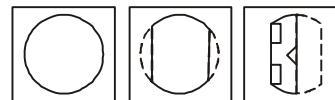
(a) (b) (c) (d)

- (a) 1 (b) 2
 (c) 5 (d) 6

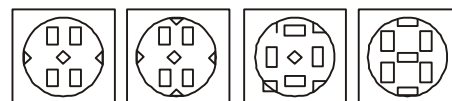
48. A piece of paper is folded and punched as shown below.

From the given responses indicate how it will appear when opened.

Question Figures:



Answer Figures:

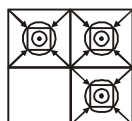


(a) (b) (c) (d)

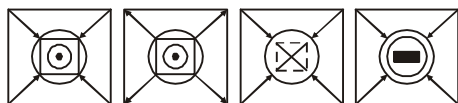
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49. Which one of the answer figures shall complete the given question figure ?

Question Figures:



Answer Figures:



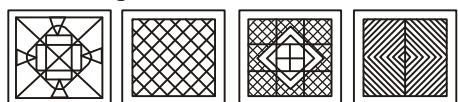
(a) (b) (c) (d)

50. In which answer figure is the given figure embedded ?

Question Figures:



Answer Figures:



(a) (b) (c) (d)

GENERAL AWARENESS

51. Suppose if we measure the time lapse between the two Sunsets by sitting in the beach, from this we can estimate

- (a) The distance between the sun and the earth
- (b) The depth of the ocean
- (c) The radius of the earth
- (d) The radius of the sun

52. Radioimmunoassay (RIA) is a therapy used

- (a) to cure lung cancer
- (b) to, cure AIDS
- (c) to cure fractures in bones
- (d) to detect antibodies and hormones present in the blood samples

53. In a Laser (say neon laser) all the atoms emit the light waves of

- (a) Same frequency
- (b) Same amplitude
- (c) Same phase
- (d) All of the above

54. Which of the following has got more heat capacity ?

- (a) Iron piece
- (b) Water
- (c) Gold piece
- (d) Benzene

55. When cone. H_2SO_4 is added to dry KNO_3 , brown fumes are evolved. These fumes are due to

- (a) SO_3
- (b) O_2
- (c) NO_2
- (d) N_2O

56. The polymer used in making plastic crockery is

- (a) Decron
- (b) Nylon
- (c) Bakelite
- (d) Melamine

57. Vulcanization of rubber is carried out by adding

- (a) Sulphur
- (b) Carbon
- (c) Ozone
- (d) Phosphorus

58. Which of the following is used in dating archaeological findings ?

- (a) $^{235}_{92}U$
- (b) $^{14}_6C$
- (c) 3_1H
- (d) $^{18}_8O$

59. Which one of the following is not a true snake ?

- (a) Glass snake
- (b) Sea snake
- (c) Tree snake
- (d) Blind snake

60. Which one of the following set belongs to the class Mammalia ?

- (a) Lion, Hippopotamus, Penguin, Bat.
- (b) Lion, Bat, Whale, Ostrich
- (c) Hippopotamus, Penguin, Whale, Kangaroo
- (d) Whale, Bat, Kangaroo, Hippopotamus

61. Where was wildlife institute of India established in 1982 for research and training programmes?

- (a) Bhubaneshwar
- (b) Delhi
- (c) Dehradun
- (d) Nilgiri

62. Which one of the following pairs belongs to cartilaginous fish ?

- (a) Shark and Tuna
- (b) Shark and Ray
- (c) Skates and Hilsa
- (d) Ray and Eel

63. Which one of the following is not a true fish ?

- (a) Silver fish
- (b) Saw fish
- (c) Hammer fish
- (d) Sucker fish

64. Johann Gregor Mendel is famous for propounding

- (a) Theory of mutation
- (b) Laws of heredity
- (c) Cell theory
- (d) Theory of acquired characters

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- | | |
|--|--|
| <p>65. Which of the following has no skeleton at all ?
 (a) Star fish (b) Sponge
 (c) Jelly fish (d) Silver fish</p> <p>66. World Health Day is observed on
 (a) June 5 (b) April 7
 (c) June 7 (d) July 11</p> <p>67. Who said "The Simon Commission Report should be thrown on a heap of rubbish"
 (a) Mahatma Gandhi
 (b) Shivaswami Ayyar
 (c) Mohammad Ali Jinnah
 (d) Jawaharlal Nehru</p> <p>68. The Marathas were defeated at Panipat because
 (a) The Marathas did not fight bravely
 (b) The Marathas were not equal to Afghans in strength
 (c) The Marthas army was short of food supplies
 (d) The Marathas were considered alien by the local population</p> <p>69. Which day was declared as the 'Direct Action Day' by the Muslim League ?
 (a) 3rd September 1946
 (b) 16th August 1946
 (c) 16th May 1946
 (d) 4th December 1946</p> <p>70. When was Mahatma Gandhi arrested during the 'Quit India Movement' of 1942 ?
 (a) 7th August 1942 (b) 30th April 1942
 (c) 9th August 1942 (d) 5th July 1942</p> <p>71. Name the continent where 'Tundra' type of climate is not found
 (a) Europe (b) Asia
 (c) Africa (d) North America</p> <p>72. If the temperature of a place increases suddenly, the relative humidity
 (a) Increases (b) Decreases
 (c) Remains constant (d) Fluctuates</p> <p>73. Which one of the following is not the example of planetary winds ?
 (a) Monsoon (b) Trade wind
 (c) Land and sea breezes
 (d) Chinook</p> <p>74. The climate of North America is influenced during winter by the
 (a) Polar air masses
 (b) Warm air masses</p> | <p>(c) Continental air masses
 (d) Tropical air masses</p> <p>75. Efficient allocation of resources is achieved to greatest extent under
 (a) Monopoly
 (b) Perfect competition
 (c) Monopolistic competition
 (d) Oligopoly</p> <p>76. "Supply creates its own demand" - Who said this?
 (a) J. B. Say (b) J. S. Mill
 (c) J. M. Keynes (d) Senior</p> <p>77. The number of females per 1000 males in India's population (Census 2001) is
 (a) 900 (b) 929
 (c) 933 (d) 945</p> <p>78. The total number of nationalised banks in India is
 (a) 14 (b) 19
 (c) 21 (d) 30</p> <p>79. In which plan was self-reliance first emphasised
 (a) Second Plan (b) Third Plan
 (c) Fourth Plan (d) Fifth Plan</p> <p>80. The full form of IRDA is
 (a) Insurance Regulatory and Development Authority
 (b) International Reconstruction and Development Association
 (c) India Road Development Agency
 (d) International Refinance and Development Association</p> <p>81. International Monetary Fund helps India with
 (a) short term capital to hide over any temporary difficulty in Balance of Payments
 (b) long term capital for purposes of reconstruction and development
 (c) medium term capital to build up infrastructure
 (d) grants at subsidised rates to stimulate private investment</p> <p>82. The demand curve for a Giffen good is
 (a) upward rising
 (b) downward falling
 (c) parallel to the quantity axis
 (d) parallel to the price axis</p> <p>83. The articles 17 and 18 of constitution provide
 (a) social equality (b) economic equality
 (c) political equality (d) religious equality</p> |
|--|--|

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84. The constitution of India describes India as
 (a) A Union of States
 (b) Quasi-federal
 (c) A federation of state and union territories
 (d) A Unitary State

85. Being the non-member, who among the following can participate in the proceedings of either house of the Parliament without having right to vote ?

- (a) Chief Justice of India
 (b) President of India
 (c) Comptroller and Auditor General
 (d) Attorney General

86. By which of the following modes can citizenship be acquired ?

- i. By Birth ii. Hereditary
 iii. By Registration iv. By Request
 (a) i and ii (b) i, ii and iii
 (c) ii and iii (d) iv, ii and iii

87. How many languages are contained in the VIIIth schedule of the Indian Constitution ?

- (a) 18 (b) 22
 (c) 16 (d) 12

88. Dr. Rajendra Prasad was elected as the first President of India by

- (a) Electoral College
 (b) People of India
 (c) Constituent Assembly
 (d) Parliament

89. In which of the following cases, the Supreme Court held that fundamental rights are unamendable ?

- (a) A. K. Gopalan's case
 (b) Keshvananda Bharti's case
 (c) M. C. Mehta's case
 (d) Golak Nath's case

90. Gandhiji believed that

- (a) End justifies means
 (b) Means justify end
 (c) Neither end justifies means nor means justify end
 (d) End and Means both should be justified

91. Match the personalities mentioned below, with the Activity(ies) they are associated with

List-I

1. Pankaj Adwani
 2. Kiran Majumdar Shaw

3. Mallika Sarabhai
 4. Anjolie Ela Menon

List-II

- | | |
|------------|------------------|
| a. Dancing | b. Painting |
| c. Snooker | d. Biotechnology |
| 1 | 2 |
| 3 | 4 |
| (a) d | a b c |
| (b) a | b c d |
| (c) b | c d a |
| (d) c | d a b |

92. The book 'The Inheritance of Loss' has been written by

- (a) Salman Rushdie
 (b) Arundhati Roy
 (c) Anita Desai (d) Kiran Desai

93. STTP stands for

- (a) Special Thermal Power Project
 (b) Semi Thermal Power Plant
 (c) Super Thermal Power Plant
 (d) Super Thermal Power Production

94. Thomas Cup is associated with

- (a) Hockey (b) Football
 (c) Badminton (d) Basket Ball

95. Who is the C.E.O. of Infosys Technologies ?

- (a) Narayan Murthy
 (b) Azim Premji
 (c) Nandan M. Nilekani
 (d) E. Shreedharan

96. Find the odd one

- (a) George W Bush (b) Bill Clinton
 (c) Jimmy Carter (d) Tony Blair

97. TRAI stands for

- (a) Trans-Roadways Authority of India
 (b) Telephone Regulatory Authority of India
 (c) Transport & Roads Authority of India
 (d) Telecom Regulatory Authority of India

98. With which 'Movement' the following were/are associated?

List-I

- a. Vinoba Bhave
 b. Medha Patkar
 c. Sunderlal Bahuguna
 d. Jaya Prakash Narayan

List-II

1. 'Chipko'
 2. 'Sampurna Kranti'

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3. 'Narmada Bachao'
 4. 'Bhoodan'
 (a) a - 4, c - 1, b - 2, d - 3
 (b) a - 4, b - 3, c - 1, d - 2
 (c) b - 3, c - 1, a - 2, d - 4
 (d) d - 2, a - 4, b - 1, c - 2
99. Which country was the runner-up in the World Cup (Football) 2006 ?
 (a) Brazil (b) Germany
 (c) France (d) Italy
100. The Catch-line "The Joy of Flying" is associated with
 (a) Jet Airways (b) Sahara Airlines.
 (c) Indian (d) Air India

NUMERICAL APTITUDE

101. In a question on division, the divisor is 7 times the quotient and 3 times the remainder. If the remainder is 28, then the dividend is
 (a) 588 (b) 784
 (c) 823 (d) 1036
102. A labourer was appointed by a contractor on the condition that he would be paid Rs. 75 for each day of his work but would be fined at the rate of Rs. 15 per day for his absence, apart from losing his wages. After 20 days, the contractor paid the labourer Rs. 1140. The number of days the labourer ab-stained from work was
 (a) 3 (b) 5
 (c) 4 (d) 2
103. The largest number, which divides 25, 73 and 97 to leave the same remainder in each case, is
 (a) 24 (b) 23
 (c) 21 (d) 6
104. 0.393939..... is equal to
 (a) $\frac{39}{100}$ (b) $\frac{13}{33}$ (c) $\frac{93}{100}$ (d) $\frac{93}{990}$
105. Given that $3.718 = \frac{1}{0.2689}$; then $\frac{1}{0.0003718}$ is equal to
 (a) 2689 (b) 2.689
 (c) 26890 (d) 0.2689
106. Greatest among the numbers
 $\sqrt[3]{9}, \sqrt{3}, \sqrt[4]{16}, \sqrt[6]{80}$ is
 (a) $\sqrt[3]{9}$ (b) $\sqrt{3}$
 (c) $\sqrt[4]{16}$ (d) $\sqrt[6]{80}$
107. The least number, by which 1944 must be multiplied so as to make the result a perfect cube, is
 (a) 2 (b) 3
 (c) 6 (d) 13
108. $\left(3 + \frac{1}{\sqrt{3}} + \frac{1}{3 + \sqrt{3}} + \frac{1}{\sqrt{3} - 3}\right)$ is equal to
 (a) 1 (b) 3
 (c) $3 + \sqrt{3}$ (d) $3 - \sqrt{3}$
109. If $x = \sqrt{3} + \sqrt{2}$, then the value of
 (a) $6\sqrt{3}$ (b) $12\sqrt{3}$
 (c) $18\sqrt{3}$ (d) $24\sqrt{3}$
110. The value of x in the sequence 1, 2, 6, 24, x is
 (a) 46 (b) 56
 (c) 96 (d) 120
111. Three numbers are in the ratio 2 : 3 : 4 and their H.C.F. is 12. The L.C.M. of the numbers is
 (a) 144 (b) 192
 (c) 96 (d) 72
112. If $p = 99$, then value of $p(p^2 + 3p + 3)$ is
 (a) 999 (b) 9999
 (c) 99999 (d) 999999
113. If x is real, then the minimum value of $(x^2 - x + 1)$ is
 (a) $\frac{3}{4}$ (b) 0 (c) 1 (d) $\frac{1}{4}$
114. If $x + y = 7$, then the value of $x^3 + y^3 + 21xy$ is
 (a) 243 (b) 143
 (c) 343 (d) 443
115. The smallest number which should be added to the number 8958 so that the result is a perfect square is
 (a) 69 (b) 67
 (c) 77 (d) 79
116. $\frac{137 \times 137 + 133 \times 133 + 18221}{137 \times 137 \times 137 - 133 \times 133 \times 133}$ equal to
 (a) 4 (b) 270 (c) 4 (d) $\frac{1}{270}$

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117. The sum of the squares of 2 numbers is 146 and the square root of one of them is, $\sqrt{5}$. The cube of the other number is
 (a) 1111 (b) 1221
 (c) 1331 (d) 1441
118. A person started his journey in the morning. At 11 a.m. he covered $\frac{3}{8}$ of the journey and on the same day at 4.30 p.m. he covered $\frac{5}{6}$ of the journey. He started his journey at
 (a) 6.00 a.m. (b) 3.30 a.m.
 (c) 7.00 a.m. (d) 6.30 a.m.
119. The sum of the H.C.F. and L.C.M. of two numbers is 680 and their L.C.M. is 84 times their H.C.F. If one of the numbers is 56, then the other number is
 (a) 64 (b) 72
 (c) 96 (d) 80
120. The greatest whole number, by which the expression $n^4 + 6n^3 + 11n^2 + 6n + 24$ is divisible for every natural number n , is
 (a) 6 (b) 24
 (c) 12 (d) 48
121. $\frac{3\sqrt{2}}{\sqrt{6}+\sqrt{3}} - \frac{2\sqrt{6}}{\sqrt{3}+1} + \frac{2\sqrt{3}}{\sqrt{6}+2}$ is equal to
 (a) 3 (b) 2
 (c) 0 (d) $\sqrt{3}$
122. $\left(\frac{1}{3.5} + \frac{1}{5.7} + \frac{1}{7.9} + \frac{1}{9.11} + \frac{1}{11.13} + \frac{1}{13.15}\right)$ is equal to
 (a) (b)
 (c) (d) 5
123. The missing term of the sequence 9, 12, 11, 14, 13, __, 15 is
 (a) 12 (b) 16
 (c) 10 (d) 17
124. If two numbers are each divided by the same divisor, the remainders are respectively 3 and 4. If the sum of the two numbers be divided by the same divisor, the remainder is 2. The divisor is
 (a) 9 (b) 7
 (c) 5 (d) 3
125. Given that $\sqrt{1225} = 35$; then $\sqrt{12.25} + \sqrt{0.1225} + \sqrt{0.001225}$ is equal to
 (a) 0.3885 (b) 388.5
 (c) 38.85 (d) 3.885
126. If $\frac{a}{b} + \frac{b}{a} = 11$, then the value
 (a) 0 (b) 1
 (c) 2 (d) 3
127. $(1 + 3 + 5 + 7 + 9 + \dots + 99)$ is equal to
 (a) 2050 (b) 2500
 (c) 2005 (d) 2002
128. $(53 \times 87 \div 159 \times 21 + 106 \times 25)$ is equal to
 (a) 16000 (b) 1060
 (c) 10600 (d) 60100
129. The missing digit (.) in 1276. so that the number is a perfect square, is
 (a) 1 (b) 4 (c) 8 (d) 9
130. Dina can type 30 words in 1 minute and Dodo 25 words in 1 minute. 1st Dina typed for 1 minute, then Dodo typed for 1 minute and so on. In this way, typing alternately they typed 600 words. The time taken by them in typ-ing these 600 words was
 (a) 22 minutes
 (b) 21 minutes 48 seconds
 (c) 21 minutes
 (d) 21 minutes 25 seconds
131. A certain distance is covered by a vehicle at a certain speed. If half of this distance is covered by another vehicle in double the time, the ratio of the speeds of the two ve-hicles is
 (a) 1 : 4 (b) 1 : 2
 (c) 2 : 1 (d) 4 : 1
132. The ratio of lengths of two trains is 5 : 3 and the ratio of their speeds is 6 : 5. The ratio of times taken by them to cross a pole is
 (a) 5 : 6 (b) 11 : 8
 (c) 25 : 18 (d) 27 : 16
133. The average of 10 numbers is 7. If each number is multiplied by 12, then the average of the new set of numbers will be
 (a) 7 (b) 19 (c) 82 (d) 84

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134. X has twice as much money as that of Y and Y has 40% more money than that of Z. If the average money of all of them is Rs. 110, then the money, which X has, is
 (a) Rs. 55 (b) Rs. 60
 (c) Rs. 90 (d) Rs. 180
135. The average age of 30 students is 9 years. If the age of their teacher is included, the average age becomes 10 years. The age of the teacher (in years) is
 (a) 27 (b) 31
 (c) 35 (d) 40
136. If the average weight of 6 students is 50 kg; that of 2 students is 51 kg; and that of 2 students is 55 kg; then the average weight of all students is
 (a) 61 kg (b) 51.5 kg
 (c) 52 kg (d) 51.2 kg
137. From a class of 24 boys, a boy, aged 10 years, leaves the class and in his place a new boy is admitted. As a result, the average age of the class is increased by 2 months. What is the age of the new boy ?
 (a) 12 years (b) 15 years
 (c) 14 years (d) 13 years
138. If the radius of a right circular cylinder is decreased by 50% and its height is increased by 60%, its volume will be decreased by
 (a) 10% (b) 60%
 (c) 40% (d) 20%
139. In an examination, 65% of the students passed in Mathematics, 48% passed in Physics and 30% passed in both. How much per cent of students failed in both the subjects ?
 (a) 17% (b) 43%
 (c) 13% (d) 47%
140. The difference of two numbers is 15% of their sum. The ratio of the larger number to the smaller number is
 (a) 23 : 17 (b) 11 : 9
 (c) 17 : 11 (d) 23 : 11
141. In a village, each of the 60% of families has a cow; each of the 30% of families has a buffalo and each of the 15% of families has both a cow and buffalo. In all there are 96 families in the village. How many families do not have a cow or a buffalo ?
 (a) 20 (b) 24 (c) 26 (d) 28
142. p is six times as large as q . The per cent that q is less than p , is
 (a) $88\frac{1}{3}$ (b) 70 (c) $63\frac{1}{3}$ (d) 50
143. The price of sugar is increased by 20%. As a result, a family has decreased its consumption by 20%. The expenditure of the family on sugar is decreased by
 (a) 0% (b) 2.5%
 (c) 4% (d) 5%
144. If the income tax is increased by 19%, the net income is reduced by 1%. The rate of income tax is
 (a) 6% (b) 4%
 (c) 5% (d) 7:20%
145. The population of a village was 9800. In a year, with the increase in population of males by 8% and that of females by 5%, the population of the village became 10458.
 What was the number of males in the village before increase ?
 (a) 4200 (b) 4410
 (c) 5600 (d) 6048
146. $a : b = c : d$, then $\frac{ma+nc}{mb+nd}$ is not equal to
 (a) $\frac{a}{b}$ (b) $\frac{c}{d}$ (c) $\frac{a+c}{b+d}$ (d) $\frac{c-a}{b-d}$
147. The ratio of the present ages of Rahul and Rashmi is 2 : 1. The ratio of their ages after 30 years will be 7 : 6. What is the present age of Rahul ?
 (a) 6 years (b) 10 years
 (c) 12 years (d) 20 years
148. In an examination, the number of those who passed and the number of those who failed were in the ratio 25 : 4. If five more had appeared and the number of failures was 2 less than earlier, the ratio of passers to failures would have been 22 : 3. The number who appeared at the examination, is
 (a) 145 (b) 150
 (c) 155 (d) 180
149. The income of A and B are in the ratio 5 : 3. The expenses of A, B and C are in the ratio 8 : 5 : 2.

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- If C spends Rs. 2000 and B saves Rs. 700, then A saves
(a) Rs. 1500 (b) Rs. 1000
(c) Rs. 500 (d) Rs. 250
150. The ratio of A to B is 4 : 5 and that of B to C is 2 : 3. If A equals 800, C equals
(a) 1000 (b) 1200
(c) 1500 (d) 2000
151. The length, breadth and height of a cuboid are in the ratio 1 : 2 : 3. If they are increased by 100%, 200% and 200% respectively, then, compared to the original volume the increase in the volume of the cuboid will be
(a) 5 times (b) 18 times
(c) 12 times (d) 17 times
152. The sum of three numbers is 68. If the ratio of the first to the second be 2 : 3 and that of the second to the third 5 : 3, then the second number is
(a) 30 (b) 58
(c) 20 (d) 48
153. The number of students in three classes are in the ratio 2 : 3 : 5. If the number of students in each class is increased by 20 the ratio becomes 4 : 5 : 7. The total number of students before the increase was
(a) 80 (b) 90
(c) 100 (d) 120
154. The price of sugar is increased by 20%. If the expenditure on sugar has to be kept the same as earlier, the ratio between the reduction in consumption and the original consumption is
(a) 1 : 3 (b) 1 : 4
(c) 1 : 6 (d) 1 : 5
155. If $a : b : c = 7 : 3 : 5$, then $(a + b + c) : (2a + b - c)$ is equal to
(a) 1 : 2 (b) 2 : 3
(c) 3 : 4 (d) 5 : 4
156. A person lends 40% of his sum of money at 15% per annum, 50% of rest at 10% per annum and the rest at 18% per annum rate of interest. What would be the annual rate of interest, if the interest is calculated on the whole sum ?
(a) 13.4% (b) 14.33%
(c) 14.4% (d) 13.33%
157. A man buys a scooter on making a cash down payment of Rs. 16224 and promises to pay two more yearly instalments of equivalent amount in next two years. If the rate of interest is 4% per annum, compounded yearly, the cash value of the scooter, is
(a) Rs. 40000 (b) Rs. 46824
(c) Rs. 46000 (d) Rs. 50000
158. Ramesh deposited Rs. 15600 in a fixed deposit at the rate of 10% per annum simple interest. After every second year, he adds his interest earnings to the principal. The interest at the end of fourth year is
(a) Rs. 1716 (b) Rs. 1560
(c) Rs. 3432 (d) Rs. 1872
159. A part of Rs. 1500 was lent at 10% per annum and the rest at 7% per annum simple interest. The total interest earned in three years was Rs. 396. The sum lent at 10% was
(a) Rs. 900 (b) Rs. 800
(c) Rs. 700 (d) Rs. 600
160. Manoj deposited Rs. 29400 for 6 years at a simple interest. He got Rs. 4200 as interest after 6 years. The annual rate of interest was
(a) $2\frac{8}{21}\%$ (b) $2\frac{7}{20}\%$ (c) $3\frac{8}{21}\%$ (d) $4\frac{8}{21}\%$
161. The compound interest on Rs. 2000 in 2 years if the rate of interest is 4% per annum for the first year and 3% per annum for the second year, will be
(a) Rs. 142.40 (b) Rs. 140.40
(c) Rs. 141.40 (d) Rs. 143.40
162. A sum of money, at simple interest, trebles of itself in 15 years. It will become 5 times of itself in
(a) 40 years (b) 36 years
(c) 30 years (d) 25 years
163. The marked price of a watch is Rs. 800. A customer gets two successive discounts on the marked price, the first being 10%. The second discount, if the customer pays Rs. 612 of it, is
(a) 12% (b) 10%
(c) 15% (d) 14%
164. At what rate per annum will Rs. 32000 yield a compound interest of Rs. 5044 in 9 months interest being compounded quarterly ?
(a) 20% (b) 32%
(c) 50% (d) 80%

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165. How much per cent more than the cost price should a shopkeeper mark his goods so that after allowing a discount of 20% on the marked price, he gains 10% ?
(a) 30% (b) 10%
(c) 27.5% (d) 37.5%
166. A dealer buys a car listed at Rs. 200000 at successive discounts of 5% and 10%. If he sells the car for Rs. 179550, then his profit is
(a) 10% (b) 9%
(c) 5% (d) 4%
167. A trader marked an article at 10% above its cost price. For selling, he allowed a certain discount and suffered a loss of 1%. The discount was
(a) 9% (b) 10%
(c) 11% (d) 12%
168. An article listed at Rs. 800 is sold at successive discounts of 25% and 15%. The buyer desires to sell it off at a profit of 20% after allowing a 10% discount. What would be his list price ?
(a) Rs. 620 (b) Rs. 600
(c) Rs. 640 (d) Rs. 680
169. 60 men could complete a work in 250 days. They worked together for 200 days. After that the work had to be stopped for 10 days due to bad weather. How many more men should be engaged to complete the work in time ?
(a) 10 (b) 15 (c) 18 (d) 20
170. A alone can complete a work in 12 days. A and B together can complete it in 8 days. How long will B alone take to complete the work ?
(a) 24 days (b) 18 days
(c) 16 days (d) 20 days
171. 12 pumps working 6 hours a day can empty a completely filled reservoir in 15 days. How many such pumps working 9 hours a day will empty the same reservoir in 12 days ?
(a) 15 (b) 9 (c) 10 (d) 12
172. A tap takes 36 hours extra to fill a tank due to a leakage equivalent to half of its inflow. The inflow can fill the tank in how many hours ?
(a) 36 (b) 24 (c) 30 (d) 18
173. A contractor undertook to complete a project in 90 days and employed 60 men on it. After 60 days, he found that $\frac{3}{4}$ of the work has already been completed. How many men can he discharge so that the project may be completed exactly on time ?
(a) 40 (b) 20
(c) 30 (d) 15
174. Two men undertook to do a job for Rs. 1400. One of them alone can do it alone in 7 days, and the other in 8 days. With the assistance of a boy they together completed the work in 3 days. How much money will the boy get ?
(a) Rs. 300 (b) Rs. 325
(c) Rs. 275 (d) Rs. 250
175. A man can row at a speed of $4\frac{1}{2}$ kms/hr in still water. If he takes 2 times as long to row a distance upstream as to row the same distance downstream, then, the speed of stream (in km/hr) is
(a) 1 (b) 1.5
(c) 2 (d) 2.5
176. Two trains travel in the same direction at the speeds of 56 km/h and 29 km/h respectively. The faster train passes a man in the slower train in 10 seconds. The length of the faster train (in metres) is
(a) 100 (b) 80
(c) 75 (d) 120
177. A train starts from A at 7 a.m. towards B with speed 50 km/h. Another train from B starts at 8 a.m. with speed 60 km/h towards A. Both of them meet at 10 a.m. at C. The ratio of the distance AC to BC is
(a) 5 : 6 (b) 5 : 4
(c) 6 : 5 (d) 4 : 5
178. Ram arrives at a Bank 15 minutes earlier than scheduled time if he drives his car at 42 km/h. If he drives car at 35 km/h he arrives 5 minutes late. The distance of the Bank, from his starting point is
(a) 70 km (b) 210 km
(c) 72 km (d) 60 km
179. A and B run a 5 km race on a round course of 400 m. If their speeds are in the ratio 5 : 4, the number of times the winner passes the other is
(a) 1 (b) 2 (c) 3 (d) 5

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180. If a train takes 6 seconds to cross a pole and if the length of train is 120 metres, then the speed of the train in km/ hr will be
 (a) 60 (b) 72
 (c) 70 (d) 80
181. The ratio of cost price and selling price of an article is 8 9. The profit per cent is
 (a) 20 (b) 15
 (c) 12.5 (d) 10
182. A man buys pencils at the rate of 6 for Rs. 5 and sells them at 5 for Rs. 6. His profit per cent is
 (a) 30 (b) 35
 (c) 40 (d) 44
183. A coconut merchant finds that the cost price of 2750 coconuts is the same as the selling price of 2500 coconuts. The loss or gain per cent is
 (a) 5% loss (b) 15% loss
 (c) 20% gain (d) 10% gain
184. A person buys 100 cups at Rs. 10 each. On the way 10 cups are broken. He sells the remaining cups at Rs. 11 each. His loss per cent is
 (a) $\frac{1}{2}$ (b) 1 (c) $1\frac{1}{2}$ (d) 2
185. By selling 144 hens Mahesh suffered a loss equal to the selling price of 6 hens. His loss per cent is
 (a) 4 (b) 3 (c) 9 (d) $4\frac{1}{2}$
186. A car and a jeep were sold for Rs. 121000 each. The car was sold at a loss of 20% while the jeep at a gain of 20%. The entire transaction resulted in
 (a) neither loss nor gain
 (b) gain of Rs. 1000
 (c) loss of Rs. 1000
 (d) gain of Rs. 500
187. If the sides of an equilateral triangle are increased by 20%, 30% and 50% respectively to form a new triangle, the increase in the perimeter of the equilateral triangle is
 (a) 25% (b) 333%
 (c) 75% (d) 100%
188. If the radius of a sphere is doubled, its volume becomes
 (a) double (b) four times
 (c) six times (d) eight times
189. If each side of a rectangle is increased by 50%, its area will be increased by
 (a) 50%, (b) 125%
 (c) 100% (d) 250%
190. The floor of a corridor is 100m long and 3 m wide. Cost of covering the floor with carpet 50 cm wide at the rate of Rs. 15 perm is
 (a) Rs. 4500 (b) Rs. 9000
 (c) Rs. 7500 (d) Rs. 1900
191. The areas of three adjacent faces of a cuboid are x, y, z square units respectively. If the volume of the cuboid be v cubic units, then the cor-rect relation between v, x, y, z is
 (a) $v^2 = xyz$ (b) $v^3 = xyz$
 (c) $v^2 = x^3 y^3 z^3$ (d) $v^3 = x^2 y^2 z^2$
192. A right circular cylinder is formed by rolling a rectangular paper 12 cm long and 3 cm wide along its length. The radius of the base of the cylinder will be
 (a) $\frac{3}{2\pi}$ cm (b) $\frac{6}{2\pi}$ cm (c) $\frac{9}{2\pi}$ cm (d) 2π cm
193. The area of a triangular field, the lengths of whose sides are 50 m, 78 m and 112m, is
 (a) 1600 m² (b) 1480 m²
 (c) 1680 M² (d) 3360 m²
194. A cone of height 7 cm and base-radius l cm is carved out from a cuboidal block of wood of size 10 cm × 5 cm × 2 cm. In the process, the wood wasted will be (Use is $\pi = \frac{22}{7}$)
 (a) $92\frac{2}{3}\%$ (b) $46\frac{1}{3}\%$ (c) $53\frac{2}{3}\%$ (d) $7\frac{1}{3}\%$
195. A rectangular tank of length 10 m, breadth 5 in and depth 6 in is full of water. How much water must be taken out of the tank to reduce the level of water in the tank by one metre ?
 (a) 30 m³ (b) 60 m³ (c) 50 m³ (d) 100 m³
196. Some oil is filled in a right circular cylindrical vessel. The radius of the base of the vessel is 6 cm. Some iron balls, each of diameter 3 cm, are completely dipped into the oil. If the level of oil in the vessel rises by 2 cm, the number of iron balls dipped into the oil is
 (a) 16 (b) 8 (c) 32 (d) 4

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Directions (197-200): Study the table and answer the questions. The table given here shows the highest and average marks of a class in four subjects in four years. The maximum marks in each subject are 100.

Year	SUBJECTS							
	English		Maths		Science		Social Science	
	Highest	Average	Highest	Average	Highest	Average	Highest	Average
1993	80	70	94	60	89	70	65	55
1994	82	65	85	62	95	64	66	58
1995	71	56	92	68	97	68	68	48
1996	75	52	91	64	92	75	77	58

197. What is the overall average of marks in the four subjects in the year 1995 ?
 (a) 63 (b) 64
 (c) 65 (d) 60

198. Supposing that there were 40 students in science in the year 1995, how much total of marks did they receive combined together?
 (a) 2800 (b) 2720
 (c) 2560 (d) 3000

199. In which year, the difference between the highest and the average marks in Mathematics was maximum ?
 (a) 1995 (b) 1993
 (c) 1994 (d) 1996

200. In which year, the difference between the highest and average marks in Social Science was the least ?
 (a) 1996 (b) 1995
 (c) 1994 (d) 1993

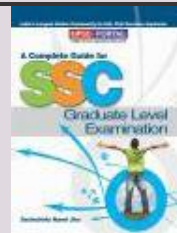
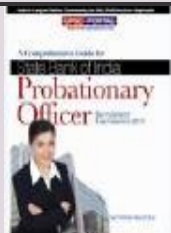
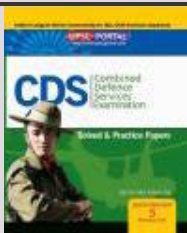
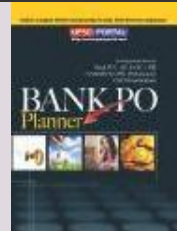
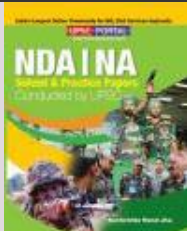
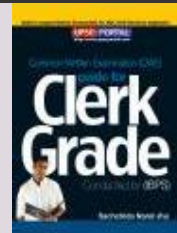
ANSWERS

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

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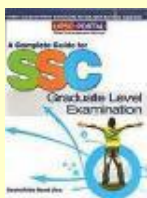
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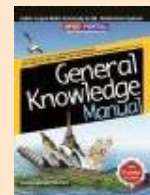


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