

MANAGEMENT APTITUDE TEST

2009

Directions (1-3) : Read the following information to mean these answers.

Six books are kept one on top of the other. The History book is just above Accountancy. The Maths books is between Punjabi and Urdu. English is between History and Punjabi.

Mohan Dey is undecided which four movies to see this week. He is considering a spy thriller, a murder mystery, a comedy and a science fiction. The movies will be shown by TV channels STAR, SONY, B4U and HBO, not necessarily in that order, and telecast on Tuesday, Wednesday, Saturday and Sunday, not necessarily in that order.

The movies by STAR will be shown on Sunday. The spy thriller will be shown on Tuesday. The science fiction movies are shown by B4U and not telecast on Saturday. The comedy is shown by HBO channel.

7. On Wednesday Mohan Dey can watch
(a) the science fiction movie (b) the murder mystery
(c) the spy thriller (d) the comedy

8. The TV channel SONY will telecast
(a) a comedy on Saturday
(b) a science fiction movie on Saturday
(c) a murder mystery on Tuesday
(d) a spy thriller on Tuesday

9. Mohan Dey watched movies on two channels whose names come first and third in the alphabetical order. He did not watch

 - (a) the movie shown on Wednesday
 - (b) the murder mystery
 - (c) the science fiction movie
 - (d) the movie shown on Tuesday

Directions (10-12): These Questions are based on the statements given below :
Medhu and Shivani are good in Drawing. Lata

Madhu and Shivani are good in Dramatics and Computer Science.

Asha and Madhu are good in Computer Science and Physics.

Asha, Pratibha and Namita are good in Physics and History.

Namita and Asha are good in Physics and Mathematics.

Directions (13-15) : In each of these questions two statements A and B are given followed by two conclusions I and II. Consider both the statements to be true even if they seem to be at variance from commonly known facts. Decide which of the given conclusion is/are definitely drawn from the given statements. Mark answer as

- (a) If only II follows.
 (b) If only I follows.
 (c) If neither I nor II follows.
 (d) If both I and II follow.

- ### 2. Statement of

- A. If there is shortage in the production of onions, the price of onions will —————.

B Price of onions

- Conclusions :**

- ## II. Onions were

- Statements :**

match.

- B.** We have won the match.
Conclusions :

15. Statements :

- A. Some business men are rich.
B. Soman is rich.

Conclusions :

- I. Soman is a businessman.
II. Soman has a big farm.

Directions (16-18) : Read the information given below to answer these questions.

Six persons A, B, C, D, E and F are going by a car to see Agra. In this group, there are three journalists, a professor and a doctor. In the group, there are two married couples. No man in the group is a professor and a doctor. F is a sick man and he lives with his married son C. Among the three journalists, husband of D who looks after his sick father earns more than E, who in turn gets less pay than B. Sister of E gets less pay than her husband 'B' but not more than A.

16. Who is the professor in the group?

- (a) B (b) A
(c) C (d) Cannot be determined

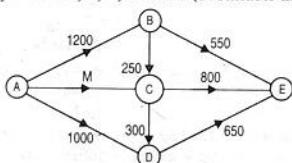
17. Which of the following is a pair of ladies?

- (a) A, C (b) A, D
(c) A, B (d) Cannot be determined

18. Who among the following earns the least?

- (a) B (b) A
(c) C (d) D

Directions (19-21) : Answer these based on the figure which represents the flow of natural gas through pipelines across major cities A, B, C, D and E (in suitable units).



Assume, that supply equals demand.

19. What is the number of units demanded in B?

- (a) 400 (b) 350
(c) 450 (d) 500

20. If the number of units demanded in C is 225, what is the value of M?

- (a) 875 (b) 1075
(c) 775 (d) 850

21. If the total demand in E is 80% of the demand in A, what is the demand in A?

- (a) 2400 (b) 2500
(c) 4500 (d) None of these

Directions (22-26) : Each of these consists of a question and two statements numbered A and B. Decide whether the data provided in the statement(s) is/are sufficient/necessary to answer the question. Mark answer as

(a) if the data in statement B alone are sufficient to answer the question while the data in statement A alone are not sufficient to answer the question.

(b) if the data in statement A alone are sufficient to answer the question, while the data in statement B alone are not sufficient to answer the questions.

- (c) if the data either in statement A alone or in statement B alone are sufficient to answer the question.
(d) if the data in both the statements A and B together are not sufficient to answer the question.

22. What is the rate of the compound interest?

- A. A certain amount invested at the compound interest rate amounts to Rs. 1331.
B. The amount was invested for a period of three years.

23. What is the present age of the mother?

- A. Father's age is eight years more than the mother's age. Father got married at the age of 28 years.
B. Present age of the father is 30 years. Four years back the ratio of mother's age to father's age was 12 : 13.

24. How many boys are there in the class?

- A. The class has total 45 children and ratio of boys to girls is 4 : 5.
B. The ratio of girls to boys is 4 : 5 and boys are nine more than the girls.

25. What is the difference between the two digits in a two-digit number?

- A. The sum of the two digits is 8.
B. 1/5 of that number is 15 less than 1/2 of 44.

26. How much minimum marks will be required to pass an examination?

- A. Student A secured 32% marks in that examination and he failed by 1 mark. Student B secured 36% marks in the same examination and his marks were 1 more than the minimum pass marks.
B. Student A secured 30% of full marks in the examination and he failed by 2 marks. If he had secured 5 more marks his percentage of marks would have been 40%.

Directions (27-30) : Answer these questions based on the information provided in the tables.

Sector Composition of India's Exports (in percentage)

Sector	1998-99	1999-2000	2000-01	2001-02	2002-03
Agricultural and Allied	17.9	18.2	18.2	13.4	12.1
Ores and Minerals	5.2	1.8	2.7	2.8	3.6
Petroleum and Crude	2.3	1.4	1.4	4.9	4.5
Manufactured Goods	73.6	77.6	74.7	76.1	77.4
Other Products	1.0	1.0	1.2	2.8	2.4

Products wise Composition of Exports of the Manufactured Goods Sector (in Percentage)

Product	1998-99	1999-2000	2000-01	2001-02	2002-03
Leather Products	7.1	5.5	5.0	4.4	3.8
Chemicals	8.8	7.8	9.2	9.8	10.1
Engineering Goods	12.5	13.6	13.2	15.7	16.6
Textiles	14.0	13.7	13.6	11.8	11.8
Ready made Garments	12.3	11.6	13.1	11.4	10.4
Gems and Jewellery	15.3	16.6	17.8	16.8	18.3
Others	30.0	31.2	28.1	30.1	29.0
Total	100	100	100	100	100

Directions (31-35) : Study the table below to answer these questions.

Production of Plastic Material

Months	Polypropylene (000 tonnes)		Polyethylene (000 tonnes)		Nylon (000 tonnes)	
	2003-04	2004-05	2003-04	2004-05	2003-04	2004-05
March	17.6	20.8	104	40	3150	2900
April	16.4	20.6	100	88	3050	2850
May	16.0	21.4	80	96	3000	2900
June	15.4	19.2	88	80	2520	2800
July	16.0	19.2	90	84	2600	2700
August	16.6	21.4	94	80	2650	2750
September	16.4	20.8	98	84	2500	2650
October	17.8	23.0	100	80	2200	3000
November	16.4	22.6	104	92	2000	2950
December	17.6	21.8	108	88	2250	3000
January	20.0	20.0	96	100	2750	2350
February	19.8	17.8	20	96	2600	2250
March	21.0	—	40	96	2900	—

Direction (Q. 36-41) : Refer the following table to answer these questions.

Sectorwise Installed Capacity in MW

Year	Thermal	Hydel	Nuclear	Total
1990	7900	6390	420	14710
1991	8200	6610	420	15230
1992	8900	6780	420	16100
1993	9100	6965	640	16705
1994	10150	7530	640	18320
1995	11000	8500	640	20140
1996	12000	9200	640	21840
1997	13000	9880	640	23520
1998	15200	10200	800	26200
1999	16700	10450	800	27950
2000	19000	11000	800	30800

Directions (42-44) : Each of the following incomplete arguments is followed by four sentences. One of the four alternatives (a), (b), (c) and (d) completes the argument in order to justify the conclusion. Pick that out.

42. Man learns through experience as he has initiative by nature.

 - (a) All who have initiative by nature learn through experience
 - (b) None who have initiative by nature learn through experience
 - (c) None who has initiative by nature learns through experience
 - (d) Only few with initiative learn through experience

43. We now have to fight for peace with some courage and determination as we fought against aggression.

 - (a) All those who have fought against aggression should fight for peace
 - (b) Many are fighting for peace who have fought against aggression
 - (c) Some who are fighting for peace have fought against aggression
 - (d) None is fighting for peace who have fought for aggression

44. Education has produced a vast population able to read but unable to distinguish what is worth reading

 - (a) All educated people can distinguish worth reading materials
 - (b) Many educated people cannot distinguish worth reading materials
 - (c) As much as educated people are there, it is easy to distinguish worth reading materials.
 - (d) All those who are educated cannot distinguish the materials worth reading

Directions (45-47) : In each of these questions a few statements are followed by four conclusions numbered I, II, III and IV. Consider the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusion(s) and then decide which of the given conclusion(s) logically follow(s) from the given statements.

45. Statements :

- A. All mirrors are phones.
B. Some phones are gadgets.
C. All gadgets are mirrors.

Conclusions :

 - I. Some gadgets are phones.
 - II. Some gadgets are mirrors.
 - III. Some gadgets are not mirrors.
 - IV. Some mirrors are phones.

(a) Only I, II and IV follow
(b) None follows
(c) Only II and III follow
(d) Either II or IV follows

46. Statements :

- A. All rackets are jackets.
 - B. No cow is cat.
 - C. Some dogs are cats.

C. Only cats are domesticated.

- Conclusions :**

 - I. Some rackets are not cats.
 - II. Some cats are jackets.
 - III. Some rackets are cats.
 - IV. No dog is a cow.

(a) Only II and IV follow
 (b) Only either I or II and IV follow
 (c) Only III and IV follow
 (d) Only I and IV follow

- #### **47. Statements :**

- A. All stairs are lifts.
 - B. No lift is an escalator.
 - C. Some escalators are helicopters.
 - D. Some lifts are planes.

D. Some hints and Conclusions:

- Conclusions :**

 - No stairs is an escalator.
 - Some helicopters are not escalators.
 - Some stairs are planes.
 - Some helicopters are escalators.

(a) Only I and IV follow
 (b) Only I and either II or IV follow
 (c) Either II or IV follows
 (d) Only I, III or IV follows

Directions (48-50) : Each question has a main statement, followed by four, statements labelled A, B, C, and D. Choose the ordered pair of statements where the first statement implies the second, and the two statements are logically consistent with the main statement.

Directions (51-63) : Answer these questions independent of each other.

51. From a point, Rajneesh started walking towards east and walked 35 m. He then turned towards his right and walked 20 m and he again turned right and walked 35 m. Finally he turned to his left and walked 20 m and he reached his destination. Now, how far is he from his starting point?

63. A one-rupee coin is placed on a plain paper. How many coins of the same size can be placed round it so that each one touches the central and adjacent coins?

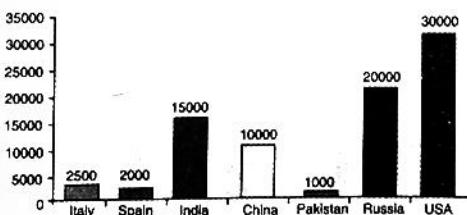
Directions (64-68) : The following table refers to hotel construction projects. The cost of project increased at the rate of 10% per annum; if completed beyond 1997.

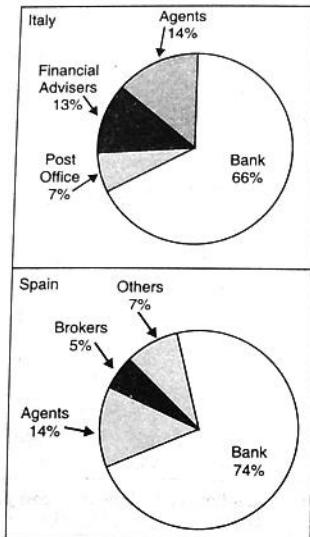
Hotels in Mumbai

Project	No. of Rooms	Estimated Cost (Rs. in crores)	Year of Completion	Company
Windsor Manor	600	275	1999	IHCL
Leela Hotels	310	235	1999	Leela Hotels
Mumbai Heights	250	250	1998	Bombay Hotels
Royal Holidays	536	225	1998	Lokhand-wala Group
Majestic Holidays	500	250	1999	Raheja Group
Supremo Hotel	300	300	1999	ITC
Hyatt Regency	500	250	2000	Asian Hotels

Directions (69-71) : These questions are based on the pie charts and the bar graph given below.

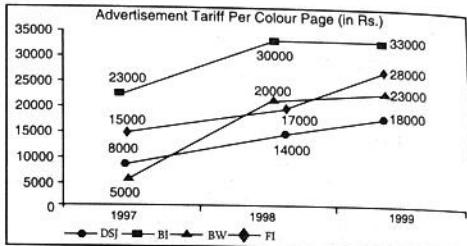
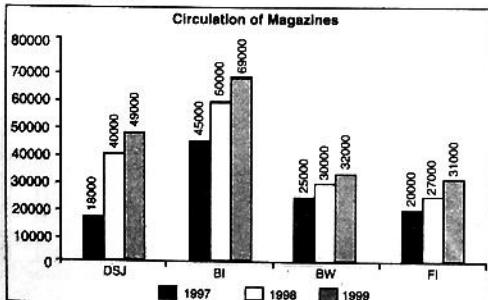
Sale of Life Insurance Policies in 2002 (in million dollars)





69. By what amount is the life insurance sold in Italy through agents more/less than the life insurance sold in Spain through brokers and agents?
 (a) More by \$ 30 million (b) Less by \$ 10 million
 (c) Less by \$ 30 million (d) More by \$ 20 million
70. If it is known that 12.5% of the total life insurance sold in the countries is listed for term insurance, then what is the approximate value of non-term insurance sold in these countries for the year 2002?
 (a) \$ 6480 million (b) \$ 10060 million
 (c) \$ 70400 million (d) Data insufficient
71. The split-up of sales of life insurance by distribution channels for India in 2002 is the same as that of Spain. If the insurance agents in India are paid a commission of 0.5% of their sales, then what is the amount of commission earned by them?
 (a) \$9.75 million (b) \$9.5 million
 (c) \$10.5 million (d) \$13.25 million

Directions (72-76) : Study the following graphs to answer these questions.



DSJ : Dalal Street Journal, BI : Business India, BW : Business World, FI : Fortune India

72. The total circulation figure for the four magazines together in 1998 was approximately
 (a) 181,000 (b) 108,000
 (c) 157,000 (d) 140,000
73. During the years 1997-99, the magazine that has shown maximum percentage growth in circulation has been
 (a) Dalal Street Journal (b) Business India
 (c) Business World (d) Fortune India
74. In 1999, if Fortune India were to charge the same rate to its advertisers as Dalal Street Journal was charging a year ago, their cost of advertisement per thousand copies in fortune India would
 (a) increase by Rs 140 (b) decrease by 50%
 (c) decrease by Rs 400 (d) increase by 25%
75. In 1998, the advertisement cost for colour page per thousand copies was the lowest for
 (a) Dalal Street Journal (b) Business India
 (c) Business World (d) Fortune India
76. The advertisement cost of colour page per thousand copies for Business World has, from 1997 to 1998
 (a) decreased by Rs 200 (b) remained the same
 (c) increased by Rs 466 (d) increased by Rs 200

Directions (77-80) : Each question consists of two quantities, one in Column A and one in column B. Compare the two quantities and choose answer option as
 (a) if the quantity in column B is greater
 (b) if the quantity in column A is greater
 (c) if the two quantities are equal
 (d) if the relationship cannot be determined from the information given

- | Column A | Column B |
|--|------------------------|
| The number of posts needed for a fence 144 feet long and posts are placed 12 feet apart | 12 posts |
| 78. Time elapsed from 2 : 55 P.M. to
3 : 15 P.M. on the same afternoon | $\frac{1}{3}$ hour |
| 79. $\frac{1}{3}$ of 8 | $66\frac{2}{3}\%$ of 4 |
| 80. The average of $\sqrt{0.49}$, $\frac{3}{4}$ and 0.8 | 75% |
| 81. How many companies from India found a place in the 'Global-500' list?
(a) 5 (b) 4
(c) 8 (d) 10 | |

- 106.** Most bacterial population grown in controlled conditions will quickly expand to limit the food supply, produce toxic waste products that inhibit further growth, and reached and equilibrium state within a relatively short time
- will have produced toxic waste products that inhibit further growth and also will reach and equilibrium state within a relatively short time
 - produce toxic waste products that inhibit further growth, and reached and equilibrium state within a relatively short time
 - will then produce a toxic waste product that inhibit further growth and thus reached an equilibrium state in a very short time
 - produce toxic waste products that inhibit further growth and reach equilibrium
- 107.** It could be argued that the most significant virtue of a popular democracy is not the right to participate in the selection of leaders, but rather that it affirms our importance in the scheme of things
- (a) but rather is affirmation of
 - (b) but rather that it affirms
 - (c) but rather it's affirmation
 - (d) but instead of that, its affirming that
- 108.** Long popular among the connoisseurs of Indian music, Ravi Shankar first impressed western listeners with his phenomenal technical virtuosity, but they soon came appreciate his music as an artful expression of an older culture's musical insight.
- (a) but it soon occurred that they appreciated his music as an artful
 - (b) but they soon came to appreciate his music as an artful
 - (c) but soon this was surpassed by an appreciation of it as an artful
 - (d) which was soon surpassed by an even deeper appreciation of it as an artful
- Directions (109-112) :** Each question has a group of sentences marked A, B, C and D. Arrange these to form a logical sequence.
- 109.** A. We tend to see the similarity within a category as being more important, and the similarity between different categories as being less important, than either actually is.
- B. Given a small amount of information about a person, we are ready to classify them as a member of a particular group, and then to infer all kinds of additional facts about them, as if all members of the group were the same in most respects.
- C. Our tendency to classify and label everything can lead us into the error of seeing the world as made up of only those categories for which we have names.
- D. Expecting too much of the descriptive power of languages is itself a serious cause of distorted thinking
- (a) DCBA
 - (b) DBAC
 - (c) BDAC
 - (d) BCDA
- 110.** A. Some of us, as a result, gain an overall impression of people as either all good or all bad, making further assumptions on this basis.
- B. An example of the assumption some patients make that doctors with a good "bedside manner" are also more technically competent as others who do not relate as well to their patients.
- C. This is what the psychologists refer to as halo effect.
- D. We have a strong tendency of associate positive attributes with other positive attributes and negative ones with each other.
- (a) DCBA
 - (b) DABC
 - (c) DBCA
 - (d) DACB
- 111.** A. In the past, the customized tailoring units were localized to the township or city and catered exclusively to domestic demand
- B. Traditionally, Indian preferred custom made clothing and the concept of ready to wear is a relatively recent one.
- C. Consumer awareness of styling issues and the convenience afforded by ready to wear helped the RMG industry make small in roads into the domestic market in the 1980s.
- D. The customized tailoring outfits have always been a major source of clothing for domestic market.
- (a) BDAC
 - (b) BCDA
 - (c) CDBA
 - (d) DBAC
- 112.** A. Participation involves more than the formal sharing of decisions.
- B. Through anticipation, individuals or organizations consider trends and make plans, shielding institutions from trauma of learning by shock.
- C. Innovative learning involves both anticipation and participation.
- D. It is an attitude characterized by the cooperation, dialogue and empathy.
- (a) ABCD
 - (b) BCDA
 - (c) CBAD
 - (d) DABC
- Directions (113-116) :** Each of these questions has a sentence with four alternatives. Choose the alternative which best conveys the content of the given sentence correctly
- 113.** No officer had ought to be put into a situation where he has to choose between his love for his family and the responsibilities accompanying his duty.
- (a) No officer has ought to be put into a situation in which he has to choose between his love for his family and the responsibilities accompanying his duty
 - (b) No officer had ought to be put into a situation where he has to choose between his love for his family and the responsibilities accompanying his duty
 - (c) No officer should be put into a situation where he has to choose between his love for his family and the responsibilities accompanying his duty
 - (d) No officer ought to be put into a situation in which he has to choose between his love for his family and the responsibilities accompanying his duty
- 114.** Being a realist, the detective could not accept the statement of the accused that UFOs has caused the disturbance.
- (a) Since he was a realist, the detective could not accept the statement of the accused that UFOs has caused the disturbance
 - (b) being a realist, the detective could not accept the statement of the accused the UFOs had caused the disturbances
 - (c) Being that he was a realist, the detective could not accept the statement of the accused that UFOs had caused the disturbance
 - (d) Realist that he was, the detective could not accept the statement of the accused that UFOs had caused the disturbance

- 115.** Ever since the sting operation, there has been much opposition from they who maintain that it was an unauthorised act.
- (a) Ever since the sting operation, there has been much opposition from they who maintain that it has been an unauthorised act
 - (b) Ever since the sting operation, there has been much opposition from they who maintain that it was an unauthorised act
 - (c) Ever since the sting operation, there has been much opposition from those who maintain that it was an unauthorised
 - (d) Ever since the sting operation, there has been much opposition from those maintaining that it was an unauthorised act
- 116.** The trend toward a decrease in the working hours is already evident in the longer weekend given to employees in many multinational organisations
- (a) The trend toward a decrease in the working hours is already evident in the longer weekend given to employees in many multinational organisations
 - (b) The trend toward a decrease in the working hours is already evident in the longer weekend given to employees in many multinational organisations.
 - (c) The trend toward a decrease in the working hours is already evident in the longer weekend given to employees in many multinational organisations.
 - (d) The trend toward a decrease in the working hours is all in already evident in the longer weekend given to employees in many multinational organisations
- Directions (117-120) :** Attempt these questions independent of each other
- 117.** Many of the junk foods on the market today, doughnuts, burgers and pizza, have less nutrients than natural foods, which were dominant a decade or two ago. Many nutritionists claim that pizza and doughnuts give less nourishment than natural foods. A spokesman of a leading junk food company—Pizza House — stated recently that an examination of grade school students shows less nutritional deficiency than in their parents' time. Hence, foods are not as bad as made out to be. Which of the following, if true, would tend to strengthen the view of the spokesman?
- (a) Fewer junk foods were available to the parents.
 - (b) Grade school children reported eating no breakfast at all.
 - (c) Adults claim to eat junk foods as well as natural foods.
 - (d) Both (a) and (c)
- 118.** Throughout the first decade of the 21st century, net increase in Indian direct investments in the Far East (funds outflows) exceeded net new Far East direct investment in India.
- Each of the following if true, could help to account for this trend except
- (a) Labour mobility was higher in India than in the Far East
 - (b) Land values in the Far East were increasing at a faster rate than in India
 - (c) The cost of labour (wages) was consistently lower in the Far East than in India
 - (d) Corporate liquidity was lower in India than in the Far East
- 119.** Of the world's largest AIDS cases countries in 2010, three had the same share of world AIDS patients as they had in 2000. These three countries may serve as examples of countries that succeeded in holding steady their share of the AIDS disease. Which of the following, if true, would most seriously undermine the idea that these countries serve as examples as described above?
- (a) Countries should strive to reduce their share of the total AIDS patients in the world, rather than try to hold it constant
 - (b) Of the three countries two had a much larger share of world AIDS incidence in 2000 than in 2010
 - (c) The three countries have different rates of population growth.
 - (d) None of the above
- 120.** The cost of housing in many urban parts of India has become so excessive that many young couples, with above-average salaries, can only afford small apartments. EMI and rent commitments are so huge that they can not consider the possibility of starting a family since a new baby would probably mean either the mother or father giving up a well paid position-something they can ill afford. The lack of or great cost of child-care facilities further precludes the return of both parents to work.
- Which of the following adjustments could practically be made to the situation described above which would allow young couples to improve their housing prospects?
- (a) Encourage couples to have one child only
 - (b) Encourage couples to remain childless
 - (c) Encourage young couples to move to cheaper areas for living.
 - (d) None of these is likely to have an impact on the current situation.
- 121.** The World Trade organisation (WTO) was earlier known as
- (a) UNICEF
 - (b) GATT
 - (c) UNCTAD
 - (d) FAO
- 122.** What is Value Added Tax (VAT)?
- (a) A new initiative taken by the government to increase the tax-burden of high income groups
 - (b) A simple, transparent, easy to pay tax imposed on consumers
 - (c) A single tax that replaces State taxes like surcharge, turnover tax, etc
 - (d) A new tax to be imposed on the producers of capital goods
- 123.** The outcome of 'devaluation of currency' is
- (a) increased export and foreign reserve deficiency
 - (b) increased export and improvement in balance of payments
 - (c) increased import and improvement in balance of payments
 - (d) increased export and import
- 124.** The common currency which has been introduced among 11 European nations is known as
- (a) Euro
 - (b) Euro Pound
 - (c) Euro Dollar
 - (d) None of the above
- 125.** Nuclear reactors used to produce electricity are based on
- (a) nuclear fusion
 - (b) nuclear fission
 - (c) cold fusion
 - (d) superconductivity

- 126.** Who amongst the following was the head of the Investment Commission which submitted its report to the government of India recently?
 (a) Dr. Rakesh Mohan
 (b) Mr. Ratan Tata
 (c) Mr. Kumar Mangalam Birla
 (d) Mr. Rahul Bajaj
- 127.** Mr. Arvind Kejriwal who got the Ramon Magasaysay Award 2006 is the founder of which of the following NGOs.
 (a) Aswahan (b) Sanklap
 (c) Parivartan (d) Sammelan
- 128.** Which bank has launched a new health cover scheme under the name of "Arogya shree"?
 (a) PNB (b) SBI
 (c) Andhra Bank (d) OBC
- 129.** The Eleventh Five Year Plan has been named as
 (a) 'Towards Fast and More Inclusive Growth'
 (b) 'Towards Infrastructural and Agricultural Growth'
 (c) 'Towards Rapid Educational and Economical Growth'
 (d) None of the above
- 130.** Which of the following State Governments has decided to provide health insurance to people living below the poverty line with effect from January 2007?
 (a) Andhra Pradesh (b) Orissa
 (c) Karnataka (d) West Bengal
- 131.** In November 2006, Prime Minister Dr. Manmohan Singh and Chinese President Hu Jintao signed how many agreements including the Bilateral Investment Protection agreement, in New Delhi?
 (a) 11 (b) 15
 (c) 13 (d) 9
- 132.** What is the position of Tatas, the largest Indian group in terms of revenues and market capitalisation, in the Forbes' list of world's most reputed companies?
 (a) 20th (b) 18th
 (c) 22nd (d) 24th
- 133.** The Indian Railway has decided to start how many new luxury trains on the line of "Palace on wheels" to ensure foreign customer?
 (a) 6 (b) 4
 (c) 10 (d) 15
- 134.** ASEAN, the major trade block of the world, consists of the following nations
 (a) Indonesia, Malaysia, Thailand, Philippines and Singapore
 (b) India, Bangladesh, Myanmar, Sri Lanka and Pakistan
 (c) Indonesia, India, Thailand, Malaysia and Singapore
 (d) Vietnam, Thailand, Mauritius, Singapore and Philippines
- 135.** The states through which the Cauvery river flows is
 (a) Kerala, Karnataka and Tamil Nadu
 (b) Andhra Pradesh, Karnataka and Tamil Nadu
 (c) Kerala, Andhra Pradesh and Tamil Nadu
 (d) Maharashtra, Karnataka and Tamil Nadu
- 136.** Which one of the following is not correctly matched?
 (a) White — Dairy
 (b) Green Revolution — Agriculture
 (c) Blue Revolution — Fishery
 (d) Red Revolution — Wool
- 137.** Which one of the following is not a department in the Ministry of Human Resource Development?
 (a) Department of Secondary Education and Higher Education
 (b) Department of Elementary Education and Literacy
 (c) Department of Technical Education
 (d) Department of Woman and Child Development
- 138.** In India, National Income is estimated by
 (a) Central Statistical Organisation
 (b) Planning Commission
 (c) Indian Statistical Institute
 (d) National Sample Survey Organisation
- 139.** Which state in the country has the largest number of districts?
 (a) Maharashtra (b) Madhya Pradesh
 (c) Tamil Nadu (d) Uttar Pradesh
- 140.** Who among the following has been given 'World Citizenship Award' 2006?
 (a) Jimmy Carter (b) Kofi Annan
 (c) Bill Clinton (d) Ronald Reagan
- 141.** A man received Rs. 12000 as Puja Bonus. He invested a part of it at 5% per annum and the remaining at 6% per annum, simple interest being allowed in each case. The total interest earned by him in 4 years is Rs. 2580. The sum invested at 5% per annum is
 (a) Rs. 4500 (b) Rs. 4000
 (c) Rs. 7500 (d) Rs. 8000
- 142.** A finance company declares that, at a certain compound interest rate, a sum of money deposited by anyone will become 8 times in three years. If the same amount is deposited at the same compound rate of interest, then in how many years will it become 16 times?
 (a) 5 years (b) 4 years
 (c) 6 years (d) 7 years
- 143.** In an examination, a pupil's average marks were 63 per paper. If he had obtained 20 more marks for his Geography paper and 2 more marks for his History paper, his average per paper would have been 65. How many papers were there in the examination?
 (a) 9 (b) 8
 (c) 10 (d) 11
- 144.** A boatman rows to a place 45 km distant and back in 20 hours. He finds that he can row 12 km with the stream in the same time as 4 km against the stream. Find the speed of the stream.
 (a) 3 km/h (b) 2.5 km/h
 (c) 4 km/h (d) Cannot be determined
- 145.** Two cyclists start on a circular track from a given point but in opposite directions with speeds of 7 m/s and 8 m/sec respectively. If the circumference of the circle is 300 m, after what time will they meet at the starting point?
 (a) 100 s (b) 20 s
 (c) 300 s (d) 200 s
- 146.** In an objective examination of 90 questions, 5 marks are allotted for every correct answer and 2 marks are deducted for every wrong answer. After attempting all the 90 questions a student got a total of 387 marks. Find the number of questions that he attempted wrong.
 (a) 36 (b) 18
 (c) 9 (d) 27

PASSAGE-1

After President George W. Bush signed the United States - India Nuclear Cooperation Bill, he called up Prime Minister Manmohan Singh to tell him how pleased he was at this development. While welcoming this event, the Prime Minister took the opportunity to tell the President that there remained areas of concern that needed to be addressed during the negotiation of the bilateral

agreement (called the 123 agreement, after the relevant clause number in the US Atomic Energy Act, 1954) The US has entered into some twenty-five 123 agreements with various countries, including the one concerning Tarapur. The Tarapur agreement concluded in 1963 was unique in that it guaranteed supplies of enriched uranium fuel from the US for running the Tarapur reactors for their entire life. However, after 1987 the US did not supply fuel saying its domestic legislation under the Nuclear Non-Proliferation Act prevented it from doing so. India argued that Tarapur was an inter-governmental agreement and hence it had to be honoured by the US. Later, US allowed France to supply fuel to India. Subsequently, the USSR (now Russia) and even China supplied fuel for Tarapur. The lesson from the Tarapur episode is that U.S. breached with impunity even a cast iron guarantee it had furnished. Considerable bitterness grew between the U.S. and India and extended to many other areas beyond the nuclear one. When India agreed, reluctantly, in March 2006 to put imported reactors under "safeguards in perpetuity", the US consented to the Indian insistence on assurances of fuel supply. This meant India could build up a stockpile of fuel to tide over disruption in supply and the US and Britain would arrange alternate supplies. The US would agree to work with other countries namely Russia, France, and Britain to arrange alternate supplies. The US legislation, based on the Hyde Bill, forbids India building up a stockpile of Nuclear fuel. It also obligates U.S. administration to work with other nuclear Supplier Group countries to get them to suspend supplies to India, if the U.S. has done so under some provision of the Hyde Bill. It is not evident how the U.S. can address the legitimate concerns of India on continued fuel supply, given the boundaries set by the Hyde Bill. With regard to future nuclear tests, the Prime Minister has said, India is only committed to a voluntary moratorium. A moratorium is only a temporary holding off of an activity, conditioned by specific circumstances obtained at the time when such a declaration was made. It cannot be construed as a permanent ban. The Hyde Bill has sought to make the moratorium into a permanent ban. However, there is no such restraint imposed on the US, China, Pakistan or any other country. In bringing up this issue, I do not wish to suggest resumption of tests by India. But India cannot prevent other countries from carrying out tests. It is, therefore, unacceptable that India forfeits its right to test for all time to come under the agreement with the US. Even if the 123 agreement is silent on the issue, Indian negotiators must put this issue on the table. The Hyde Bill calls for suspension of all cooperation and fuel supplies and even calls for return of all equipment and materials supplied earlier in the event of test. It baffles one how India can return reactor installations that might have been operated a few years, were such a contingency to arise in future. The differences over the definition of "full civilian nuclear cooperation" have been discussed in the media. The Indian understanding was that reprocessing of spent fuel, enrichment of uranium, and production of heavy water also formed part of the term 'full civilian nuclear cooperation.' In the congressional debate, it has been noted that these were construed by the US to be in the nature of military activities and not civilian. India's future plans for thorium utilisation for civil nuclear power depend crucially on reprocessing. Similarly, civil nuclear power

units using natural uranium require heavy water as reactor coolant and moderator. Equally if India were to embark on a sizeable light water reactor programme, it may like to have control on supply of enriched uranium for economic and supply security reasons. India has technologies of its own in these areas and will develop them further in the years ahead. If the Indo-US agreement moves ahead in the manner its sponsors have speculated, in a few decades from now some 90 per cent of the nuclear installations in India would be open to International Atomic Energy Agency inspections. In that scenario, how can India reconcile to the embargo from nuclear advanced countries on the export of enrichment, reprocessing and heavy water technologies. Even if the issue were to be papered over now, it will then look from India's point of view to have been a very bad bargain.

- 161.** What is the Indian understanding of the definition of "full civilian nuclear cooperation"?

 - (a) Enrichment of uranium
 - (b) Reprocessing of spent fuel
 - (c) Production of heavy water
 - (d) All of the above

162. With reference to the passage, select which of the following statement(s) is/are incorrect?

 - A. US did not supply fuel to India after 1987.
 - B. The Hyde bill calls for suspension of all cooperation and fuel supplies.
 - C. India can prevent other countries from carrying out the test.
 - (a) A and B
 - (b) B only
 - (c) A and C
 - (d) A, B and C

163. What was the uniqueness of the Tarapur agreement that was concluded in 1963?

 - (a) It guaranteed supplies of enriched uranium fuel from the US for running the Tarapur reactors for entire life
 - (b) It prevented other countries from carrying out nuclear tests
 - (c) It addresses the legitimate concerns of India on fuel supply
 - (d) All of the above

164. Which of the following countries supplied fuel for Tarapur?

 - (a) France
 - (b) USA
 - (c) USSR and France
 - (d) France, USSR and China.

PASSAGE -II

Not even a three-day brainstorming session among top psychologists at the Chinese University could unravel one of the world's greatest puzzles-how the Chinese mind ticks. Michael Bond had reason to pace the pavement of the Chinese University campus last week. The psychologist who co-ordinated and moderated a three day seminar in Chinese psychology and most of the participants came a long way to knock head. "If a bomb hits this building," muttered Bond, half-seriously, "it would wipe out the whole discipline." But the only thing that went off in the Cho Yiu Conference hall of Chinese University was the picking of brains, the pouring out of brains and a refrain from an on-going mantra : "More work needs to be done" or 'we don't know.' Each of the 36 participants was allowed 30 minutes plus use of an over-head projector to condense years of research into data and theories. Their contents spilled over from 20 areas of Chinese behaviour, including

reading, learning styles, psychopathology, social interaction personality and modernisation. An over-riding question for observers, however, was why, in this group of 21 Chinese and 15 non-Chinese, weren't there more professionals from mainland China presenting research on the indigenous people? Michael Philips, a psychiatrist who works in Hubei Province, explained : "The Cultural Revolution silenced and froze the research", said the Canadian born doctor who has lived and worked in China for more than 10 years. "And 12 years later, research is under way but it is too early to have anything yet. Besides, most of the models being used are from the West anything." In such a specialised field, how can non-Chinese academics do research without possessing fluency in Chinese? These who cannot read, write or speak the language usually team up with Chinese colleagues. "In 10 years, we won't be able to do this. It's a money thing," said William Gabrenya of Florida Institute of Technology, who described himself as an illiterate Gweilo who lacks fluency in Chinese. Dr. Gabrenya raised questions such as why is research dependent on university students, why is research done on Chinese people in coastal cities (Singapore, Taiwan, Shanghai and Hong Kong) but not in land? "Chinese psychology is too Confucian, too neat. He's been dead a long time. How about the guy on a motorcycle in Taipei?" Dr. Gabrenya said, urging that research have a more contemporary outlook.

The academics came from Israel, Sweden, Taiwan, Singapore, United States, British Columbia and, of course, Hong Kong. Many of the visual aids they used by way of illustration contained eye-squinting type and cobweb-like graphs. One speaker, a sociologist from Illinois, even warned her colleagues that she would not give anyone enough time to digest the long, skinny columns of numbers. Is Chinese intelligence different from Western? For half of the audience who are illiterate in Chinese, Professor Jimmy Chan of HKU examined each of the Chinese characters for "intelligence". Phrases such as "a mind as fast as an arrow" and connections between strokes for sun and the moon were made. After his 25-minute speech, Chan and the group lamented that using Western tests are the only measure available to psychologists, who are starving for indigenous studies of Chinese by Chinese. How do Chinese children learn? David Kember of Hong Kong Polytechnic University zeroed in on deep learning versus surface. Deep is when the student is sincerely interested for his own reasons. Surface is memorizing and spitting out facts. It doesn't nurture any deep understanding. If the language of instruction happens to be the children's second language, students in Hong Kong have all sorts of challenges with English-speaking teachers from Australia, Britain and America with accents and colloquialisms. Do Westerners have more self-esteem than Chinese? Dr. Leung Kwok, Chairman of the psychology department of Chinese University, points his finger at belief systems : The collectivist mind-set often stereotypes Chinese unfairly. The philosophy of "yuen" (a concept used to explain good and bad events which are pre-determined and out of the individual's control does not foster a positive self-concept. Neither do collectivist beliefs, such as sacrifice for the group, compromise and importance of using connections. "If a Chinese loses or fails, he has a stronger sense of responsibility. He tends to blame it on himself. A

non-Chinese from the West may blame it on forces outside himself", Dr. Leung said. By the end of the three day session, there were as many questions raised as answered. It was agreed there was room for further research. To the layman, so much of the discussion was foreign and riddled with jargon and on-going references to studies and researchers. The work of the participants will resource in a forthcoming handbook of Chinese Psychology, which will be edited by Dr. Bond and published by Oxford University Press.

165. According to the passage the author suggests that
 (a) not many people study Chinese psychology
 (b) the building is in danger of attack
 (c) Chinese psychology is a difficult subject to organize
 (d) Chinese psychology is a difficult subject to organize
166. It can be inferred from the passage that
 (a) the Cultural Revolution was a productive period for Chinese psychology
 (b) the Cultural Revolution was a dangerous period for Chinese psychology
 (c) the Cultural Revolution was an unproductive period for Chinese psychology
 (d) the Cultural Revolution was a new beginning for Chinese psychology
167. According to the passage, William Gabrenya refers to himself as an 'illiterate gweilo'. This suggests that
 (a) he feels defensive about not speaking and reading Chinese
 (b) he feels secure in his illiteracy
 (c) he is representative of other Westerners active in this field
 (d) he can operate perfectly well without learning Chinese
168. According to the passage, all of the following are true except
 (a) the visual aids were not very easy to understand
 (b) the conference attracted a very professional standard of presentation
 (c) the visual aids were not very tidy
 (d) the presenters were under time pressure
169. According to the passage which of the following is not true?
 (a) Chinese characters are very difficult for Westerners to master
 (b) It is difficult to come to a conclusion about western and Chinese intelligence
 (c) It is difficult to measure Chinese intelligence with western tests
 (d) More tests are required that are conducted by the Chinese for the Chinese

PASSAGE - III

"Since wars begin in the minds of men," so runs the historic UNESCO Preamble, "It is in the minds of men that the defences of peace must be constructed." Wars erupt out when the minds of men are inflamed, when the human mind is blinded and wounded, succumbs to frustration and self-negation. War is the transference of this self-negation into the other-negation. The three Indo-Pak wars and the persisting will to terrorise have emanated from this savage instinct of other-negation that is the legacy of the partition carnage and its still-bleeding and unhealed wound. Truncated from its eastern wing in 1971, Pakistan ever since has suffered from a sense of total existential self-negation. Plus the scars left by the two previously lost

wars to India and Kargil fill the Army and the Pakistan psyche with a seething urge to revenge : that Indian has to be negated, destroyed — in a deep psychological sense, another Hiroshima in the subcontinent is imaginable and possible. Terrorism in Kashmir springs from such deep negating existential grounds. Like the former Soviet Union, Pakistan came into being as a result of a grand delusion and massive perversion of reality — the so called two-nation theory. Like the former Soviet Union, it stand in danger of crumbling unless it modifies its reality perception and comes to terms with its post-Bangladesh identity within the prevailing subcontinental equation. Failing this, Pakistan is bound to break up, nudging the region to a nuclear nightmare, including, possible South Asian Hiroshimas. With 'hot pursuits' and 'surgical operations' freely making rounds among the policy elite and the public at large, the national atmosphere looks ominously charged. "On the brink," headlines The Week adding, "As men and machines are quickly positioned by India and Pakistan, the threat of war looms real." To which Gen. Musharraf counters, "If any war is thrust on Pakistan, Pakistan's armed forces and the 140 million people of Pakistan are fully prepared to face all consequences with all their might." According to Indian Express, "Pakistan has deployed medium range ballistic missile batteries (MRBBs) along the Line of Control (LOC) near Jammu and Poonch sectors in a action that will further escalate the tension between the two countries." And India's Defence Minister ups the ante, "We could take a (nuclear) strike, survive and then hit back, Pakistan would be finished." (Hindustan Times, December 30, 2001). Mr. Fernandes's formulation is certainly a tactical super shot, even a strategical super hit in as much as this is the very logic of India's 'No-first-strike' doctrine. The Defence Minister obviously has no idea of the ethical, phenomenological implications of abandoning chunks of the Indian population to ransom for potential Hiroshimas and then 'finishing' the neighbouring country of 140 in what could be nothing short of an Armageddon. Forget these horrendous scenarios. But does this not repudiate the grain of truth for which India's civilisation stood for and vindicated across the untold millennia of its history? Yet, Mr. Fernandes, the pacifist and Gandhian, is no warmonger. As Defence Minister he had to react at a level with the Pakistanis, with their proclivity to drop the nuclear speak whenever that suited them, could have.

170. According to the passage, Pakistan is bound to disintegrate
 I. and it will throw the subcontinent into a nuclear backlash.
 II. if it refuses to accept its present identity.
 III. if it does not stop fuelling terrorism in Kashmir.
 (a) II and III are correct (b) I, II and III are correct
 (c) I and II are correct (d) I and III are correct
171. It can be inferred from the passage that
 (a) Soviet Union crumbled as a result of the grand delusion of the two nation theory
 (b) Soviet Union also came into being as result of the two nation theory
 (c) Soviet Union's disintegration was due to her failure to accept the reality
 (d) The ideological basis of creation of Soviet Union and Pakistan was the same

172. According to the passage, the reason for terrorism in Kashmir is
 (a)Pakistan's perception of two-nation theory
 (b)Pakistan's blind faith in terrorism
 (c)Pakistan's sense of self-negation
 (d) Both (b) and (c)
173. According to the passage, all of the following about the defence minister are *not* true, except
 (a) He is not a Gandhian (b) He is not logical
 (c) He is a pacifist (d) He is not a warmonger

PASSAGE-IV

Mobility of capital has given an unprecedented leverage to companies not only to seek low paid, informal wage employees across national boundaries, but the threat of capital flight can also serve to drive down wages and place large numbers of workers in insecure, irregular employment. Informalisation strategies enable employers to draw on the existing pool of labour as and when they require, without having to make a commitment to provide permanent employment or any of the employee-supporting benefits associated with permanent jobs. As far as the working class is concerned, informalisation is in fact, a double-edged sword. For not only is the employee denied the rights associated with permanent employment, but the nature of casual work essentially destroys the foundations of working class organisation. As workmen move from one employer to another, numbers are scattered, everyday interests become divergent, and individualized survival takes precedence over group or collective struggles.

Even workers who have been in sectors with a long tradition of unionization are difficult to organise once they are removed from the arena of permanent employment. About 50,000 textile mill workers in Ahmedabad city were laid off during the late 1980s and early 1990s. The move to obtain compensation and rehabilitation for these workers floundered on the weakness of the struggle, as numbers of workers who were available for pressing their claims and taking to some kind of activism dwindled, the motivation of leaders declined and the struggle slowly frittered away. If this is the situation with workers familiar with the concept of unionisation, the tasks of organising vast masses of casual workers who have never been organised, is obviously much more difficult. The problem, essentially, is not only that of organising workers for struggle, but given the transitory nature of casual employment, employers are not bound to provide insurance of any kind, and frequently, there is no fixed employer against whom workers' claims can be pressed. In this context, the formation of the National Centre for Labour (NCL) can be seen as a landmark in the history of the working class movement in India. The NCL is an apex body of independent trade unions working in the unorganised sector of labour, registered under the Indian Trade Union Act, 1926. Through its constituent members, the NCL represents the interests of workers in construction, agriculture, fisheries, forests, marble and granite manufacturing, self-employed workmen, contract workers, anganwadi and domestic workers, as also workers in the tiny and small-scale industries. The NCL, launched in 1995, has about 6,25,000 members spread over 10 states in India. The NCL reflects two tendencies. First, the formation of such a federation highlights that despite the problems in

organising workers in the informal sector, there have in fact, been a rage of organisations which have sought to address these issues. On a collective plane, their activities represent a marked departure from the traditional way of conceptualising union activities exclusively around organised or formal sector workers. Thus, the unionisation of the hitherto unorganized sector has become inserted into the political universe as a possible and legitimate activity. Second formation of the NCL, to an extent, overturns the pessimistic logic that the interests of the unorganised sector—given their divers and inchoate form—cannot be articulated from a single platform. For the NCL aims precisely, do not only provide an anchoring for these diverse organisations, but more importantly, to articulate the need for institutionalised norms of welfare which can apply to the unorganised sector as a whole. It is in the context of this generalised movement that one needs to view recent efforts to bring in legislative acts which seek to create a new framework of laws and institutions addressing the needs of the unorganised sector. One of the major problems that has dogged this sector has of course been that of implementation. Thus, for example, while there is a stimulated minimum wages for most industries, this is frequently flouted by employers, a central objective of the NCL has been to advocate legislation to create agencies, which would mediate between the employer and the employee, to institutionalise certain guarantees of welfare and security to the employee. Thus, for example, the State Assisted Scheme of Provident Fund for Unorganised Workers, 2000 proposed by the Labour Department of the Government of West Bengal, introduces the mechanism of a Fund which will contributed to by the worker (wage-earner or self-employed person), the employer, and the Government and to which the worker would be entitled at the age of 55 or above. By registering a worker to this programme and issuing an identity card, the initial hurdle of identifying a large mass of scattered workers is overcome and a step is taken towards institutionalising their legitimate claims against the employers and from the state. The Karnataka Unorganised Workers (Regulation of Employment and Conditions of Work) Bill, 2001, offers a more comprehensive framework for addressing the unorganised sector's needs. It envisages the formation of a fund and a Board, in each sector. The Board, consisting of members from the Government, employers and employees, would be responsible for administering the Fund. Employers must compulsorily pay towards the Fund, a certain fixed percentage of the wages or taxes payable by them, or a certain percentage of the cost of their project, (for example, in construction projects). The concept of the Fund is designed to create the financial viability of social security for workers, and to provide a structure for employers' contribution. Thus, workers would be insured for accident and illness, old age and to unemployment. The Board is designed to provide a mechanism to ensure the working of the Fund, and essentially, to institutionalise workers' claims against employers through an empowered agency. In the broader context of economic liberalization, recently proposed labour reforms seek to extend the scope of contract employment and to facilitate worker lay-off. As the casualisation of labour now seems an irreversible trend, the Bills outlined above would appear to be the only way to

ensure workers' interest. To this extent, organizations such as the NCL, which have systematically struggled to push for such legislation, are serving an invaluable historical purpose. As the Karnataka Unorganised Workers Bill awaits endorsement during the Assembly sessions being held currently for the protagonists of the movement, this would be a watershed, but, nevertheless only a moment in a struggle that needs to be waged at multiple points and to evolve to newer heights.

174. According to the passage, the proposed labour reforms
 (a) will provide a much needed thrust to liberalization
 (b) will encourage the practice of hiring laboures on a contract basis
 (c) have resulted in casulisation of labour
 (d) seek to extend the scope of employment and to facilitate worker retrenchment

175. According to the passage, textile mill workers could not obtain compensation because
 (a) the number of workers available for pressing their claims was not adequate
 (b) they were not united
 (c) of the weakness of the struggle
 (d) the motivation of the leaders was very low

176. According to the passage, the I most important aspect of the NCL is that
 (a) it has given a voice to the interests of workers in the unorganized sector
 (b) it is an apex body of independent trade unions
 (c) it has 6,25,000 members spread over 10 states in India
 (d) it is the only baby of its kind in India

Directions (177-180) : Each of these questions has four underlined parts, Identify the part which is not correct

177. No sooner he left office/(a) then it started/(b) raining heavily/(c)nough to make him completely wet/(d)

178. Even after hearing the leader/(a) for a long time/(b) the followers could not make out/(c) which was talking about/(d)

179. The principal, along with the teachers/(a)were seen boarding a bus/(b)to go to a picnic/(c) on national holiday/(d)

180. With the introduction of the new syllabus/(a)the number of colleges reporting/(b)high results are decreasing/(c) year after year/(d)

181. A train 300 m long is running at a speed of 90 km/h. How many seconds will it take to cross a 200 m long train running in the opposite direction at a speed of 60 km/h ?

- (a) $7\frac{1}{5}$ (b) 60
 (c) 12 (d) 20

182. Out of eight crew members three particular members can sit only on the left side. Another two particular members can sit only on the right side. Find the number of ways in which the crew can be arranged so that four men can sit on each side.

- (a) 864 (b) 865
 (c) 863 (d) 1728

183. Three pipes are made of different shapes. The corss-sections of the pipes are an equilateral triangle, a hexagon and a circle. The perimeter of each of these

- cross-sections is equal. The flow through the pipes is proportional to the area of cross-section. If it takes 8 min for the triangular pipe to fill up the tank, what will be the difference in the times taken by the hexagonal and circular pipes?

 - 45 s
 - 1 min
 - 1.5 min
 - 7.9 min

184. An iron cube of size 10 cm is hammered into a rectangular sheet of thickness 0.5 cm. If the sides of the sheet be in the ratio 1 : 5, then the sides are

 - 20 cm, 100 cm
 - 10 cm, 50 cm
 - 40 cm, 200 cm
 - None of the above

185. A portion of a 30 m long tree is broken by a tornado and the top strikes the ground making an angle of 30° with the ground level. The height of the point where the tree is broken is equal to :

 - 10 m
 - $\frac{30}{\sqrt{3}}$ m
 - $34\sqrt{3}$ m
 - 60 m

186. Fresh grapes contain 80 percent water while dry grapes contain 10 percent water. If the weight of dry grapes is 250 kg what was its total weight when it was fresh?

 - 1000 kg
 - 1125 kg
 - 1225 kg
 - 1100 kg

187. A dealer buys dry fruit at the rate of Rs 100, Rs 80 and Rs 60 per kg. He bought them in the ratio 12 : 15 : 20 by weight. He in total gets 20% profit by selling the first two and at last he finds he has no gain no loss in selling the whole quantity which he had. What was the percentage loss he suffered for the third quantity?

 - 40%
 - 20%
 - 30%
 - 50%

188. A man sitting in train travelling at the rate of 50 km/h observes that it takes 9 s for a goods train travelling in the opposite direction to pass him. If the goods train is 187.5 m long, find its speed

 - 40 km/h
 - 25 km/h
 - 35 km/h
 - 36 km/h

189. Amit Kumar got a 4-digit pass code (which is formed out of the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, 9) of his ATM card from ICICI Bank. But after the 50th day he lost the pass code and also forgot the number. How many maximum number of trials may he have to take to get the right number? 0 can be the beginning of the code number

 - $10!$
 - 10^4
 - 9^4
 - 9!

190. The length of a ladder is exactly equal to the height of the wall it is leaning against. If the lower end of the ladder is kept on a stool of height 3 m and the stool is kept 9 m away from the wall, the upper end of the ladder coincides with the top of the wall. Then the height of the wall is

 - 15 m
 - 12 m
 - 18 m
 - 11 m

191. If three equal cubes are placed adjacently in a row, then the ratio of the total surface area of the new cuboid to that of the sum of the surface areas of the three cubes will be

 - 5 : 9
 - 1 : 3
 - 2 : 3
 - 7 : 9

192. The Qutab Minar casts a shadow 150 m long at the same time when the Vikas Minar casts a shadow 120 m long on the ground. If the height of the Vikas Minar is 80 m, find the height of the Qutab Minar.

 - 100 m
 - 180 m
 - 150 m
 - 120 m

193. Due to global recession starting in January, Ram's monthly salary of Rs 80,000 was cut by 10%. The monthly expenses, which were Rs 6000, increased at the rate of 5% per month. Since which month will he have no savings if the recession lasted for a year?

 - April
 - March
 - May
 - June

194. An oil refinery takes 100 L of crude oil as input and after refining for 1 hour gives certain amount of output oil X litres. This can be sold in the market at a profit of Rs 30/L. If this oil is further refined for $\frac{1}{2}$ h it gives oil Y litre. This can be sold at a profit of Rs. 50/L. Output and input ratio at both the stages is 90%. The maximum amount that can't be earned from 1000 L of crude input is

 - Rs 30,000
 - Rs 27,000
 - Rs 40,000
 - Rs 40,500

195. The radius of a cylindrical cistern is 10 m and its height is 15 m. Initially the cistern is empty. We start filling the cistern with water through a pipe whose diameter is 50 cm. Water is coming out of the pipe with a velocity of 5 m/s. How many minutes will it take in filling the cistern with water?

 - 20
 - 70
 - 60
 - 80

196. If m and n are natural numbers such that $2^m - 2^n = 960$, what is the value of m ?

 - 10
 - 12
 - 16
 - Cannot be determined

197. If an angle of a triangle remains unchanged but each of its two including sides is doubled then by what factor does the area get multiplied?

 - 2
 - 3
 - 4
 - 5

198. A number when divided by 765 leaves a remainder 42. What will be the remainder if the number is divided by 17?

 - 8
 - 7
 - 6
 - 5

199. If 11, 109, 999 is divided by 1111, then what is the remainder?

 - 1098
 - 11888
 - 1010
 - 1110

200. A mixture (40 L) contains coniac and water in the ratio 3 : 1. To make the ratio 5 : 2. How much additional amount of water is required?

 - 5 L
 - 1 L
 - 3 L
 - 2 L

ANSWERS

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

HINTS & SOLUTIONS

(7-9) : On the basis of the information given in the question, the following table can be prepared.

Day	Channel	Movies
Tuesday	SONY	Spy thriller
Wednesday	B4U	Science Fiction
Saturday	HBO	Commedy
Sunday	STAR	Nysteyi

7. On Wednesday Mohan Dey can watch "the science fiction movies."
8. SONY channel will telecast "a spy thriller on Tuesday."
9. Mohan Dey did not watch the movie shown on Saturday.
- (10-12) : On the basis of information given, following truth table can be prepared.

	D	C	P	H	M
Madhu	✓	✓	✓		
Shivani	✓	✓		✓	
Asha		✓	✓	✓	✓
Pratibha	✓		✓	✓	
Namita			✓	✓	✓

10. From the table, it is clear that Namita is good in Physics, History and Mathematics but not in Computer Science.
11. Asha is good in History, Physics, Computer Science and Mathematics.
12. Pratibha is good in Physics, History and Dramatics.
13. It is clearly given in the statement that shortage in the production of onion will lead to rise in price of onion. However, it is not implicit whether onions were exported or not.

14. Clearly (I) follows, (II) does not follow.
15. If Soman is rich he may or may not be a businessman as it is given that "Some businessmen are rich." Likewise he may have or may not have a big firm. Hence, neither (I) nor (II) follows.
19. Input of $B = 1200$, Outgo of $B = (550 + 250) = 800$
Hence, number of units demanded in $B = (1200 - 800) = 400$.
20. Number of units demanded in $C = \text{input} - \text{outgo}$

$$250 + M - 800 - 300 = 225$$

$$\therefore M - 1100 + 250 = 225$$

$$\therefore M = 1075$$
21. Total demand in $E = 550 + 800 + 650 = 2000$.
Now, it is given that demand of E is 80% of demand in A .
Or $2000 = 80\% \text{ of } A$

$$\therefore A = \frac{20000}{8} = 2500 \text{ unit.}$$
23. From statement A alone we cannot answer the question.
From B, present age of father = 30 yr.
Four years back, age of father = 26 yr, and age of mother = 24 yr.
24. From A, $4x + 5x = 45$

$$\Rightarrow x = 5$$

$$\therefore \text{Number of boys} = 4 \times 5 = 20$$

 From B number of girls = $4x$
 and number of boys = $5x$.
 Given, $5x = 9 + 4x$

$$\Rightarrow x = 9$$

 Hence, boys = 45.
 Therefore, question can be answered with help of either of statements.