

Question  
Paper with  
Solutions

CAT  
1995

# CAT I995 Actual Paper

## Section – I

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**Direction for question 1 to 10:** Answer the questions based on the following information.

In the following questions, a set of four words is given. Three of the words are related in some way, the remaining word is not related to the rest. You have to pick the word which does not fit in the relation and mark that as your answer.

- |     |             |              |                 |                  |
|-----|-------------|--------------|-----------------|------------------|
| 1.  | a. Couple   | b. Sever     | c. Rend         | d. Lacerate      |
| 2.  | a. Quell    | b. Ruffle    | c. Allay        | d. Control       |
| 3.  | a. Cease    | b. Launch    | c. Initiate     | d. Commence      |
| 4.  | a. Brink    | b. Hub       | c. Verge        | d. Brim          |
| 5.  | a. Eulogy   | b. Panegyric | c. Ignominy     | d. Glorification |
| 6.  | a. Detest   | b. Abhor     | c. Ardour       | d. Loathe        |
| 7.  | a. Adroit   | b. Adept     | c. Dexterous    | d. Awkward       |
| 8.  | a. Taciturn | b. Reserved  | c. Clamorous    | d. Silent        |
| 9.  | a. Sporadic | b. Frequent  | c. Intermittent | d. Scarce        |
| 10. | a. Fanatic  | b. Zealot    | c. Maniac       | d. Rational      |

**Direction for questions 11 to 15:** Answer the questions based on the following information.

In these questions, each sentence has been divided into four parts, marked a, b, c and d. Identify that part of the sentence which needs to be changed for the sentence to be grammatically correct.

- |     |   |                                 |
|-----|---|---------------------------------|
| 11. | a. Almost all school teachers insist that   | b. a student's mother           |
|     | c. is responsible for the student's conduct | d. as well as his dress.        |
| 12. | a. In the forthcoming elections             | b. every man and woman          |
|     | c. must vote for the candidate              | d. of their choice.             |
| 13. | a. If one has to decide                     | b. about the choice of a career |
|     | c. you should choose that option            | d. which is really beneficial.  |

14. a. It is essential that diseases like tuberculosis  
c. as early as possible in order to
- b. are detected and treated  
d. assure a successful cure.
15. a. The Mumbai police have found  
c. who they believe to be
- b. the body of a man  
d. the prime suspect in a murder case.

**Direction for questions 16 to 20:** Answer the questions based on the following information.

In each of the following questions, a related pair of words or phrases is followed by five lettered pairs of words or phrases. Select the lettered pair that best expresses a relationship similar to the one expressed in the original pair.

16. Limpid : Murky  
a. Dazed : Clouded  
c. Bright : Gloomy
- b. Obscure : Vague  
d. Nebulous : Dim
17. Ease : Alleviate  
a. Hint : Allocative  
c. Collapse : Rise
- b. Revolt : Repudiate  
d. Question : Interrogate
18. Secret : Clandestine  
a. Overt : Furtive  
c. Open : Closed
- b. Covert : Stealthy  
d. News : Rumour
19. Drama : Audience  
a. Brawl : Vagabonds  
c. Art : Critics
- b. Game : Spectators  
d. Movie : Actors
20. Building : Storey  
a. Book : Chapter  
c. Tree : Stem
- b. Sentence : Adjective  
d. Elephant : Tusk

**Direction for questions 21 to 25:** Answer the questions based on the following information.

In each of these questions, a related pair of words or phrases is followed by a pair of words or phrases. Select the lettered pair that best expresses a relationship that is least similar to the one expressed in the original pair.

21. Germane : Pertinent  
a. Apt : Appropriate  
c. Dull : Sluggish
- b. Quick : Urgent  
d. Excited : Serene
22. Sail : Ship  
a. Propeller : Aeroplane  
c. Hydrogen : Balloon
- b. Radar : Satellite  
d. Accelerator : Car
23. Cosmic : Universe  
a. Terrestrial : Earth  
c. Connubial : Youth
- b. Lunar : Moon  
d. Annular : Ring







38. 1. Conflicting demands for resources are always voiced by different functions/departments in an organization.
- Every manager examines the task entrusted to him and evaluates the resources required.
  - Availability of resources in full measure makes task achievement easy, because it reduces the effort needed to somewhat make-do.
  - A safety cushion is built into demand for resources, to offset the adverse impact of any cut imposed by the seniors.
  - This aspect needs to be understood as a reality.
6. Dynamic, energetic, growth-oriented and wise managements are always confronted with the inadequacy of resources with respect to one of the four Ms (men, machines, money and materials) and the two Ts (time and technology).
- a. DABC                      b. ACBD                      c. ABCD                      d. BCDA
39. 1. Despite the passage of time, a large number of conflicts continue to remain alive, because the wronged parties, in reality or in imagination, wish to take revenge upon each other, thus creating a vicious circle.
- At times, managers are called upon to take ruthless decisions in the long-term interests of the organization.
  - People hurt others, at times knowingly, to teach them a lesson and, at other times, because they lack correct understanding of the other person's stand.
  - The delegation of any power, to any person, is never absolute.
  - Every ruthless decision will be accepted easily if the situation at the moment of committing the act is objectively analysed, shared openly and discussed rationally.
6. Power is misused; its effects can last only for a while, since employees are bound to confront it some day, more so, the talented ones.
- a. BCAD                      b. ADBC                      c. DABC                      d. BADC
40. 1. Managers need to differentiate among those who commit an error once, those who are repetitively errant but can be corrected, and those who are basically wicked.
- The persons in this category will resort to sweet-talk and make all sorts of promises on being caught, but, at the first opportunity will revert to their bad ways.
  - Managers must take ruthless action against the basically wicked and ensure their separation from the organization at the earliest.
  - The first category needs to be corrected softly and duly counselled; the second category should be dealt with firmly and duly counselled till they realize the danger of persisting with their errant behaviour.
  - It is the last category of whom the managers must be most wary.
6. The punishment must be fair and based on the philosophy of giving all the possible opportunities and help prior to taking ruthless action.
- a. ADCB                      b. CDAB                      c. CADB                      d. BDAC

**Direction for questions 41 to 45:** Each of the questions contains six statements followed by four sets of combinations of three. You have to choose that set in which the statements are logically related.

41. 1. Some dubbies are not dubbles                      2. Some dubbles are not dubbles  
 3. Noone who is rubbles is dubbles                      4. All dubbles are rubbles  
 5. Some dubbles are bubbles                      6. Some who are rubbles are not bubbles
- a. 136                      b. 456                      c. 123                      d. 246

- |     |   |  |
|-----|---|--|
| 42. | 1. Some men are bad<br>3. All bad things are men<br>5. Some sad things are men<br>a. 165                                  b. 236    | 2. All men are sad<br>4. All bad things are sad<br>6. Some sad things are bad<br>c. 241                                  d. 235                    |
| 43. | 1. All Toms are bright<br>3. Some Toms are Dicks<br>5. No Tom is a Dick<br>a. 123                                  b. 256           | 2. No bright Toms are Dicks<br>4. Some Dicks are bright<br>6. No Dick is a Tom<br>c. 126                                  d. 341                   |
| 44. | 1. All witches are nasty<br>3. All witches are devils<br>5. Some nasty are devils<br>a. 234                                  b. 341 | 2. Some devils are nasty<br>4. All devils are nasty<br>6. No witch is nasty<br>c. 453                                  d. 653                      |
| 45. | 1. No tingo is a bingo<br>3. No jingo is a tingo<br>5. Some tingoos are jingoos<br>a. 123                                  b. 132   | 2. All jingoos are bingoos<br>4. Some jingoos are not tingoos<br>6. Some bingoos are not tingoos<br>c. 461                                  d. 241 |

**Direction for questions 46 to 50:** This section contains statements followed by questions based on the statements. Read the statements and select the best option as the answer.

46. Unless you decide your whole life to it, you will never learn to speak the language of another country to perfection; you will never know its people and its literature with complete intimacy.

Which of the following is likely to undermine the above argument?

- a. I can speak 10 foreign languages already.
  - b. I do not travel to foreign countries.
  - c. I am happy with the languages I know and do not need to learn any other language.
  - d. I should spend time to understand my own people and literature first, only then can I appreciate other languages and cultures.
47. The writer can only be fertile if he renews himself and he can only renew himself, if his soul is constantly enriched by fresh experience.

Which of the following is most likely to support the above thought?

- a. Only out of fresh experience can the writer get germs for new writing.
- b. The writer can meet new people.
- c. The writer must see new places.
- d. None of these



48. But because the idea of private property has been permitted to override with its selfishness, the common good of humanity it does not follow that there are not limits within which that idea can function for the general convenience and advantage.

Which of the following is most likely to weaken the argument?

- a. All the people of the society should progress at an equitable rate and there should be no disparities and private property does bring about a tremendous disparity.
  - b. One should not strive for the common good of humanity at all, instead one should be concerned with maximising one's own wealth.
  - c. One should learn from the experiences of former communist nations and should not repeat his mistakes at all.
  - d. Even prosperous capitalist countries like the USA have their share of social problems.
49. Now the audience is a very curious animal. It is shrewd rather than intelligent. Its mental capacity is less than that of its most intellectual members. If these were graded from A to Z, decreasing with succeeding letters to the zero of the hysterical shop-girl, I should say its mental capacity would come around about the letter O.

According to the above statement,

- a. some members in the audience are more intelligent than any of its other members.
  - b. the net intelligence of the audience is a little less than average.
  - c. Only (a)
  - d. Both (a) and (b)
50. I have been studying it, consciously and subconsciously, for 40 years and I still find men unaccountable; people I know intimately can surprise me by some action of theirs which I never thought them capable of or by the discovery of some trait which exhibit a side of themselves that I never even suspected.

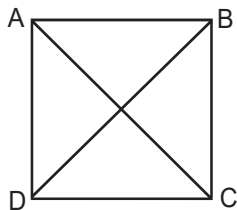
The idea in this sentence can be best summarised as

- a. men are inconsistent and therefore one should not be confident even about one's closest friends.
- b. men are unpredictable, one can never tell what they will do next; hence, one should be very careful in one's dealings.
- c. no matter how closely you know somebody there still exists an unknown facet of his personality.
- d. None of these

## Section – II

**Direction for questions 51 to 53:** Answer these questions independently.

51. ABCD is a square of area 4, which is divided into four non-overlapping triangles as shown in figure. Then the sum of the perimeters of the triangles is



- a.  $8(2 + \sqrt{2})$       b.  $8(1 + \sqrt{2})$       c.  $4(1 + \sqrt{2})$       d.  $4(2 + \sqrt{2})$
52.  $5^6 - 1$  is divisible by  
a. 13      b. 31      c. 5      d. None of these
53. Ram purchased a flat at Rs.1 lakh and Prem purchased a plot of land worth Rs.1.1 lakh. The respective annual rates at which the prices of the flat and the plot increased were 10% and 5%. After two years they exchanged their belongings and one paid the other the difference. Then  
a. Ram paid Rs.275 to Prem      b. Ram paid Rs.475 to Prem  
c. Ram paid Rs.375 to Prem      d. Prem paid Rs.475 to Ram

**Direction for questions 54 to 57:** Answer the questions based on the following information.

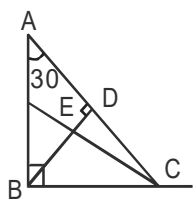
Four sisters — Suvarna, Tara, Uma and Vibha are playing a game such that the loser doubles the money of each of the other players from her share. They played four games and each sister lost one game in alphabetical order. At the end of fourth game, each sister had Rs.32.

54. How many rupees did Suvarna start with?  
a. Rs.60      b. Rs.34      c. Rs.66      d. Rs.28
55. Who started with the lowest amount?  
a. Suvarna      b. Tara      c. Uma      d. Vibha
56. Who started with the highest amount?  
a. Suvarna      b. Tara      c. Uma      d. Vibha
57. What was the amount with Uma at the end of the second round?  
a. 36      b. 72      c. 16      d. None of these

**Direction for questions 58 to 87:** Answer the questions independently.

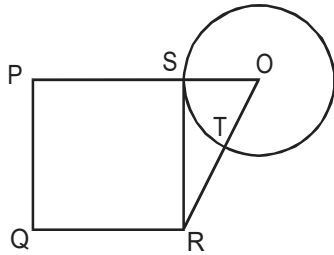
58. 72 hens cost Rs. 96.7\_. Then what does each hen cost, where two digits in place of '\_' are not visible or are written in illegible hand?  
a. Rs.3.23      b. Rs.5.11      c. Rs.5.51      d. Rs.7.22

59. A person who has a certain amount with him goes to market. He can buy 50 oranges or 40 mangoes. He retains 10% of the amount for taxi fares and buys 20 mangoes and of the balance he purchases oranges. Number of oranges he can purchase is  
 a. 36                                      b. 40                                      c. 15                                      d. 20
60. The value of  $\frac{55^3 + 45^3}{55^2 - 55 \times 45 + 45^2}$  is  
 a. 100                                      b. 105                                      c. 125                                      d. 75
61. Which one of the following cannot be the ratio of angles in a right-angled triangle?  
 a. 1 : 2 : 3                                      b. 1 : 1 : 2                                      c. 1 : 3 : 6                                      d. None of these
62. For the product  $n(n + 1)(2n + 1)$ ,  $n \in \mathbb{N}$ , which one of the following is not necessarily true?  
 a. It is even  
 b. Divisible by 3  
 c. Divisible by the sum of the square of first  $n$  natural numbers  
 d. Never divisible by 237
63. The remainder obtained when a prime number greater than 6 is divided by 6 is  
 a. 1 or 3                                      b. 1 or 5                                      c. 3 or 5                                      d. 4 or 5
64. Boxes numbered 1, 2, 3, 4 and 5 are kept in a row, and they are to be filled with either a red or a blue ball, such that no two adjacent boxes can be filled with blue balls. Then how many different arrangements are possible, given that all balls of a given colour are exactly identical in all respects?  
 a. 8                                      b. 10                                      c. 15                                      d. 22
65.  $AB \perp BC$ ,  $BD \perp AC$  and  $CE$  bisects  $\angle C$ ,  $\angle A = 30^\circ$ . Then what is  $\angle CED$ ?



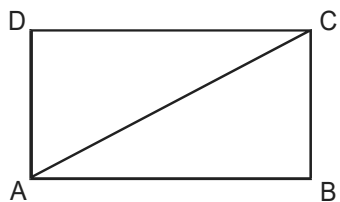
- a.  $30^\circ$                                       b.  $60^\circ$                                       c.  $45^\circ$                                       d.  $65^\circ$
66. A man invests Rs.3,000 at the rate of 5% per annum. How much more should he invest at the rate of 8%, so that he can earn a total of 6% per annum?  
 a. Rs.1,200                                      b. Rs.1,300                                      c. Rs.1,500                                      d. Rs.2,000
67.  $\frac{2}{5}$  of the voters promise to vote for P and the rest promised to vote for Q. Of these, on the last day 15% of the voters went back of their promise to vote for P and 25% of voters went back of their promise to vote for Q, and P lost by 2 votes. Then the total number of voters is  
 a. 100                                      b. 110                                      c. 90                                      d. 95

68. PQRS is a square. SR is a tangent (at point S) to the circle with centre O and  $TR = OS$ . Then the ratio of area of the circle to the area of the square is

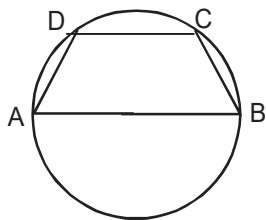


- a.  $\frac{\pi}{3}$                       b.  $\frac{11}{7}$                       c.  $\frac{3}{\pi}$                       d.  $\frac{7}{11}$
69. In a race of 200 m run, A beats S by 20 m and N by 40 m. If S and N are running a race of 100 m with exactly same speed as before, then by how many metres will S beat N?
- a. 11.11 m                      b. 10 m                      c. 12 m                      d. 25 m
70. Three consecutive positive even numbers are such that thrice the first number exceeds double the third by 2, then the third number is
- a. 10                      b. 14                      c. 16                      d. 12
71. A group of men decided to do a job in 8 days. But since 10 men dropped out every day, the job got completed at the end of the 12th day. How many men were there at the beginning?
- a. 165                      b. 175                      c. 80                      d. 90
72. If a 4 digit number is formed with digits 1, 2, 3 and 5. What is the probability that the number is divisible by 25, if repetition of digits is not allowed?
- a.  $\frac{1}{12}$                       b.  $\frac{1}{4}$                       c.  $\frac{1}{6}$                       d. None of these
73. Two typists undertake to do a job. The second typist begins working one hour after the first. Three hours after the first typist has begun working, there is still  $\frac{9}{20}$  of the work to be done. When the assignment is completed, it turns out that each typist has done half the work. How many hours would it take each one to do the whole job individually ?
- a. 12 hr and 8 hr                      b. 8 hr and 5.6 hr                      c. 10 hr and 8 hr                      d. 5 hr and 4 hr
74. I live X floors above the ground floor of a high-rise building. It takes me 30 s per floor to walk down the steps and 2 s per floor to ride the lift. What is X, if the time taken to walk down the steps to the ground floor is the same as to wait for the lift for 7 min and then ride down?
- a. 4                      b. 7                      c. 14                      d. 15
75. The sides of a triangle are 5, 12 and 13 units. A rectangle is constructed, which is equal in area to the triangle, and has a width of 10 units. Then the perimeter of the rectangle is
- a. 30 units                      b. 36 units                      c. 13 units                      d. None of these

76. In the adjoining figure,  $AC + AB = 5AD$  and  $AC - AD = 8$ . Then the area of the rectangle ABCD is



- a. 36                      b. 50                      c. 60                      d. Cannot be answered
77. One root of  $x^2 + kx - 8 = 0$  is square of the other. Then the value of k is
- a. 2                      b. 8                      c. -8                      d. -2
78. In the given figure, AB is diameter of the circle and points C and D are on the circumference such that  $\angle CAD = 30^\circ$  and  $\angle CBA = 70^\circ$ . What is the measure of  $\angle ACD$ ?



- a.  $40^\circ$                       b.  $50^\circ$                       c.  $30^\circ$                       d.  $90^\circ$
79. The length of a ladder is exactly equal to the height of the wall it is leaning against. If 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
- a. 12 m                      b. 15 m                      c. 18 m                      d. 11 m
80. A stockist wants to make some profit by selling sugar. He contemplates about various methods. Which of the following would maximise his profit?
- Sell sugar at 10% profit.
  - Use 900 g of weight instead of 1 kg.
  - Mix 10% impurities in sugar and selling sugar at cost price.
  - Increase the price by 5% and reduce weights by 5%.
- a. I or III                      b. II                      c. II, III and IV                      d. Profits are same
81. A man can walk up a moving 'up' escalator in 30 s. The same man can walk down this moving 'up' escalator in 90 s. Assume that his walking speed is same upwards and downwards. How much time will he take to walk up the escalator, when it is not moving?
- a. 30 s                      b. 45 s                      c. 60 s                      d. 90 s
82. Two positive integers differ by 4 and sum of their reciprocals is  $\frac{10}{21}$ . Then one of the numbers is
- a. 3                      b. 1                      c. 5                      d. 21

83. Three bells chime at an interval of 18 min, 24 min and 32 min. At a certain time they begin to chime together. What length of time will elapse before they chime together again?  
 a. 2 hr and 24 min      b. 4 hr and 48 min      c. 1 hr and 36 min      d. 5 hr
84. What is the value of  $m$  which satisfies  $3m^2 - 21m + 30 < 0$ ?  
 a.  $m < 2$  or  $m > 5$       b.  $m > 2$       c.  $2 < m < 5$       d. Both a and c
85. The rate of inflation was 1000%. Then what will be the cost of an article, which costs 6 units of currency now, 2 years from now?  
 a. 666      b. 660      c. 720      d. 726
86. Largest value of  $\min(2 + x^2, 6 - 3x)$ , when  $x > 0$ , is  
 a. 1      b. 2      c. 3      d. 4
87. A, B, C and D are four towns, any three of which are non-collinear. Then the number of ways to construct three roads each joining a pair of towns so that the roads do not form a triangle is  
 a. 7      b. 8      c. 9      d. 24

**Direction for questions 88 to 91:** Answer the questions based on the following information.  $le(x,$

$y) = \text{Least of } (x, y)$

$mo(x) = |x|$

$me(x, y) = \text{Maximum of } (x, y)$

88. Find the value of  $me(a + mo(le(a, b))); mo(a + me(mo(a), mo(b)))$ , at  $a = -2$  and  $b = -3$ .  
 a. 1      b. 0      c. 5      d. 3
89. Which of the following must always be correct for  $a, b > 0$ ?  
 a.  $mo(le(a, b)) \geq (me(mo(a), mo(b)))$       b.  $mo(le(a, b)) > (me(mo(a), mo(b)))$   
 c.  $mo(le(a, b)) < (me(mo(a), mo(b)))$       d.  $mo(le(a, b)) = le(mo(a), mo(b))$
90. For what values of 'a' is  $me(a^2 - 3a, a - 3) < 0$ ?  
 a.  $a > 3$       b.  $0 < a < 3$       c.  $a < 0$       d.  $a = 3$
91. For what values of 'a' is  $le(a^2 - 3a, a - 3) < 0$ ?  
 a.  $a > 3$       b.  $0 < a < 3$       c.  $a < 0$       d. Both b and c

**Direction for questions 92 to 100:** Each of these questions is followed by two statements, I and II. Mark the answer as

- a. if the question can be answered with the help of statement I alone.  
 b. if the question can be answered with the help of statement II alone.  
 c. if both statement I and statement II are needed to answer the question.  
 d. if the question cannot be answered even with the help of both the statements.

92. If  $x, y$  and  $z$  are real numbers, is  $z - x$  even or odd?  
 I.  $xyz$  is odd.  
 II.  $xy + yz + zx$  is even.

93. What is the value of  $x$ , if  $x$  and  $y$  are consecutive positive even integers?
- I.  $(x - y)^2 = 4$
  - II.  $(x + y)^2 < 100$
94. What is the profit percentage?
- I. The cost price is 80% of the selling price.
  - II. The profit is Rs.50.
95. What is the area of the triangle?
- I. Two sides are 41 cm each.
  - II. The altitude to the third side is 9 cm long.
96. What is the price of bananas?
- I. With Rs.84, I can buy 14 bananas and 35 oranges.
  - II. If price of bananas is reduced by 50%, then we can buy 48 bananas in Rs.12.
97. What is the first term of an arithmetic progression of positive integers?
- I. Sum of the squares of the first and the second term is 116.
  - II. The fifth term is divisible by 7.
98. What is the length of rectangle ABCD?
- I. Area of the rectangle is 48 square units.
  - II. Length of the diagonal is 10 units.
99. What is the number  $x$ ?
- I. The LCM of  $x$  and 18 is 36.
  - II. The HCF of  $x$  and 18 is 2.
100. Is  $x + y - z + t$  even?
- I.  $x + y + t$  is even.
  - II.  $t$  and  $z$  are odd.

## Section – III

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**Direction for questions 101 to 150:** This section contains passages followed by questions based upon the content of the passages. Read the passages and select the best option for the answers.

### Passage – 1

The Republican Party has lost its mind. To win elections, a party obviously needs votes and constituencies. However first, it needs an idea. In 1994-95, the Republican Party had after a long struggle advanced a coherent, compelling set of political ideas expressed in a specific legislative agenda. The political story of 1996 is that this same party, within the space of six weeks, became totally, shockingly intellectually deranged.

Think back. The singular achievement of the House Speaker Newt Gingrich's 1994 revolution was that it swept into power united behind one comprehensive ideological goal: dismantling the welfare state. Just about anything in the contract with America and the legislative agenda of the 104th Congress is a mere subheading: welfare reform, tax cuts, entitlement reform, returning power to the states, the balanced budget (a supremely powerful means for keeping the growth of government in check).

The central Republican idea was that the individual, the family, the church, the schools — civil society — were being systematically usurped and strangled by the federal behemoth Republicans who were riding into Washington to slay it.

With this idea they met Clinton head-on in late 1995. And although they were tactically defeated — the government shutdown proved a disaster for Republicans — they won philosophically. Clinton conceded all their principles. He finally embraced their seven year balanced budget. Then, in a State of the Union speech that might have been delivered by a moderate Republican, he declared, "The era of Big Government is over," the dominant theme of the Gingrich Revolution.

It seems so long ago. Because then, astonishingly, on the very morrow of their philosophical victory, just as the Republicans prepared to carry these ideas into battle in November, came cannon fire from the rear. The first Republican renegade to cry 'Wrong!' and charge was Steve Forbes. With his free-lunch, tax-cutting flat tax, he declared the balanced budget, the centrepiece of the Republican revolution, unnecessary. Then, no sooner had the Forbes mutiny been put down than Pat Buchanan declared a general insurrection. He too declared war on the party's central ideology in the name not supply side theory but of class warfare, the Democratic weapon of choice against Republicanism.

The enemy, according to Buchanan, is not the welfare state. It is that conservative icon, capitalism, with its ruthless captains of industry, greedy financiers and political elite (Republicans included, of course). All three groups collaborate to let foreigners — immigrants, traders, parasitic foreign-aid loafers — destroy the good life of the ordinary American worker.

Buchananism holds that what is killing the little guy in America is the Big Guy, not Big Government. It blames not an overreaching government that tries to insulate citizens from life's buffeting to the point where it creates deeply destructive dependency, but an uncaring government that does not protect its victim-people enough



from that buffeting. Buchanan would protect and wield a mighty government apparatus to do so, government that builds trade walls and immigrant — repelling fences, that imposes punitive taxes on imports, that policies the hiring and firing practices of business with the arrogance of the most zealous affirmative action enforcer.

This is Reaganism standing on its head. Republicans have focused too much on the mere technical dangers posed by this assault. Yes, it gives ammunition to the Democrats. Yes, it puts the eventual nominee through a bruising campaign and delivers him tarnished and drained into the ring against Bill Clinton.

But the real danger is philosophical, not tactical. It is axioms, not just policies, that are under fire. The Republican idea of smaller government is being proud to dust — by Republicans. In the middle of an election year, when they should be honing their themes against Democratic liberalism, Buchanan's rise is forcing a pointless rearguard battle against a philosophical corpse, the obsolete Palaeo conservatism — a mix of nativism, protectionism and isolationism of the 1930s.

As the candidates' debate in Arizona last week showed, the entire primary campaign will be fought on Buchanan's grounds, fending off his Smoot-Hawley-Franco populism. And then what? After the convention, what does the nominee do? Try to resurrect the anti-welfare state themes of the historically successful 1994 congressional campaign? Well, yes, but with a terrible loss of energy and focus — and support. Buchanan's constituency, by then convinced by their leader that the working man's issues have been pushed aside, may simply walk on election day or, even worse, defect to the Democrats. After all, Democrats fight class war very well.

Political parties can survive bruising primary battles. They cannot survive ideological meltdown. Dole and Buchanan say they are fighting for the heart and soul of the Republican Party, heart and soul, however, will get you nowhere when you've lost your way — and your mind.

101. Which broad ideology helped Newt Gingrich lead the Republican revolution of 1994?
  - a. Tax cuts
  - b. Entitlement reform
  - c. Welfare reform
  - d. Welfare state dismantling
102. Assuming the passage to be truthful, what does a party not need to win elections?
  - a. Votes
  - b. Money
  - c. Constituencies
  - d. Ideas
103. Which of the following is not a Republican?
  - a. Newt Gingrich
  - b. Pat Buchanan
  - c. Bob Dole
  - d. None of these
104. The Republicans were tactically defeated by the Democrats because
  - a. of the shutdown of the government.
  - b. the balanced budget plan failed.
  - c. Steve Forbes led a revolution.
  - d. Bill Clinton pre-empted them.
105. Which of the following would be a suitable title for the passage?
  - a. *The Democrats: Victory in Sight*
  - b. *Follies and Foibles of the Republican Party*
  - c. *Republicans — Are You Crazy?*
  - d. *Mutinies on the Republican Party.*
106. The word 'obsolete' in the context of the passage means
  - a. antiquated.
  - b. absolute.
  - c. boring.
  - d. miasmic.

107. What, according to the author, is the real danger for Republicans?
- a. The fact that small government is being ground to dust.
  - b. The fact that Bill Clinton is gaining popularity.
  - c. The fact that it is axioms, and not just policies that are under fire.
  - d. The fact that the eventual nominee would be too tired to fight an election against Clinton.
108. Which of the following, according to Buchanan, is not an enemy?
- a. Big government
  - b. Immigrants
  - c. Captains of industry
  - d. Foreign-aid requesters

## Passage – 2

Icicles — two metres long and, at their tips, as bright and sharp as needles — hang from the caves: wild ice stalactites, dragon's teeth. I peer through them to see the world transformed to abstract. Little snow tornadoes twirl across the blank. The car is out there somewhere, represented by a subtle bump in the snow-field. The old jeep truck, a larger beast, is up to its door handles, like a sinking remnant: dinosaur yielding to ice age. The town's behemoth snow-plow passes on the road, dome light twirling, and casts aside a frozen doe that now lies, neck broken, upon the roadside snow-bank, soon to vanish under the snowfall still to come.

There is double-jointed consciousness at work in the dramatics of big weather. Down in the snowstorm, we are as mortal as the deer. I sink to my waist in a drift; I panic, my arms claw for an instant, like a drowning swimmer's, in the powder. Men up and down the storm collapse with coronaries, snow shovels in their hands, cheeks turned into a deathly colour, like frost-bitten plums.

Yet when we go upstairs to consult the Weather Channel, we settle down, as cosy gods do, to hover high above the earth and watch the play with a divine perspective. Moist air labelled L for low rides up the continent from the Gulf of Mexico and collides with the high that has slid down from the North Pole. And thus is whipped up the egg-white fluff on the studio map that, down in the frozen, messy world, buries mortals.

An odd new metaphysics of weather: It is not that weather has necessarily grown more apocalyptic. The famous 'Winter of the Blue Snow' of 1886-87 turned rivers of the American West into glaciers that when they thawed, carried along inundation of dead cattle. President Theodore Roosevelt was virtually ruined as a rancher by the weather that destroyed 65 per cent of his herd. In 1811 Mississippi river flowed briefly because of the New Madrid earthquake.

What's new in America is the theatre of it. Television does not create weather; any more than it creates contemporary politics. However, the ritual ceremonies of televised weather have endowed a subject often previously banal with an amazing life as mass entertainment, nationwide interactive preoccupation and a kind of immense performance art.

What we have is weather as electronic American Shintoism, a casual but almost mystic daily religion, wherein nature is not inert but restless, stirring alive with kinetic fronts and meanings and turbulent expectations (forecasts, variables, prophecies). We have installed an elaborate priesthood and technology of interpretation: acolytes and satellites preside over snow and circuses. At least major snowstorms have about them an innocence and moral neutrality that is more refreshing than the last national television spectacle, the O. J. Simpson trial.

One attraction is the fact that these large gestures of nature are political. The weather in the mirabilis mode can, of course, be dragged onto the opened page to start a macro-argument about global warming or a micro-spat over a mayor's fecklessness in deploying snowplows. Otherwise, traumas of weather do not admit of political interpretation. The snow Shinto reintroduces an element of what is almost charmingly uncontrollable in life. And, as shown last week, surprising, even as the priests predict it. This is welcome — a kind of ideological relief- in a rather stupidly politicised society living under the delusion that everything in life (and death) is arguable, political and therefore manipulable — from diet to DNA. None of the old earthbound Marxist Who-Whom here in meteorology, but rather sky gods that bang around at higher altitudes and leave the earth in its misery, to submit to the sloppy collateral damage.

The moral difference of weather, even when destructive, is somehow stimulating. Why? The sheer levelling force is pleasing. It overrides routine and organises people into a shared moment that will become a punctuating memory in their lives ('Lord, remember the blizzard in 1996?').

Or perhaps one's reaction is no more complicated than a child's delight in dramatic disruption. Anyone loves to stand on the beach with a hurricane coming — a darkly lashing Byronism in surf and wind gets the blood up. The God's, or child's, part of the mind welcomes big weather — floods and blizzards. The coping, grown-up human part curses it, and sinks.

The paradox of big weather, it makes people feel important even while it, dramatises their insignificance. In some ways, extreme weather is a brief moral equivalent of war — as stimulating as war can sometimes be, through without most of the carnage.

The sun rises upon diamond-scattered snow-fields and glistens upon the lucent dragon's teeth. In the distance, three deer, roused from their shelter under pines, venture forth. They struggle and plunge undulously through the opulent white.

Upstairs, I switch on the Shinto Weather Channel and the priests at the map show me the next wave — white swirls and eddies over Indiana, heading ominously east.

- [illegible]

114. According to the author, one of the greatest attractions of the weather is that  
a. it is politicized      b. it is apolitical      c. it is reckless      d. it is beautiful
115. What is most probably the physical position of the author of the passage?  
a. In his house      b. In a snowstorm      c. In his office      d. In a bunk
116. Which of the following is not true of the weather?  
a. It is a moral equivalent of war      b. It is pleasantly manipulable  
c. It is a levelling force      d. It dramatises man's insignificance
117. The word 'undulously' in the context of the passage means  
a. unduly      b. indomitably      c. powerful      d. curved

### Passage – 3

Among those who call themselves socialists, two kinds of persons may be distinguished. There are, in the first place, those whose plans for a new order of society, in which private property and individual competition are to be superseded and other motives to action substituted, are on the scale of a village community or township, and would be applied to an entire country by the multiplication of such self-acting units; of this character are the systems of Owen, of Fourier, and the more thoughtful and philosophic socialists generally. The other class, which is more a product of the continent than of Great Britain and may be called the revolutionary socialists, has people who propose to themselves a much bolder stroke. Their scheme is the management of the whole productive resources of the country by one central authority, the general government. And with this view some of them avow as their purpose that the working classes, or somebody on their behalf, should take possession of all the property of the country, and administer it for the general benefit.

Whatever may be the difficulties of the first of these two forms of socialism, the second must evidently involve the same difficulties and many more. The former, too, has the great advantage that it can be brought into operation progressively, and can prove its capabilities by trial. It can be tried first on a select population and extended to others as their education and cultivation permit. It need not, and in the natural order of things would not, become an engine of subversion until it had shown itself capable of being also a means of reconstruction. It is not so with the other; the aim of that is to substitute the new rule for the old at a single stroke, and to exchange the amount of good realised under the present system, and its large possibilities of improvement, for a plunge without any preparation into the most extreme form of the problem of carrying on the whole round of the operations of social life without the motive power which has always hitherto worked the social machinery. It must be acknowledged that those who would play this game on the strength of their own private opinion, unconfirmed as yet by any experimental verification — who would forcibly deprive all who have now a comfortable physical existence of their only present means of preserving it, and would brave the frightful bloodshed and misery that would ensue if the attempt was resisted — must have a serene confidence in their own wisdom on the one hand and the recklessness of other people's sufferings on the other, which Robespierre and St. Just, hitherto the typical instances of those united attributes, scarcely came up to. Nevertheless this scheme has great elements of popularity which the more cautious and reasonable form of socialism has not; because what it professes to do, it promises to do quickly, and holds out hope to the enthusiastic of seeing the whole of their aspirations realised in their own time and at a blow.

118. Who among of the following is not a socialist?  
a. Robespierre                      b. Fourier                      c. Owen                      d. All are socialists
119. Which of the following, according to the author, is true?  
a. The second form of socialism has more difficulties than the first.  
b. The second form of socialism has the same difficulties as the first.  
c. The second form of socialism has less difficulties than the first.  
d. The author has not compared the difficulties of the two.
120. According to the author, the difference between the two kinds of socialists is that  
a. one consists of thinkers and the others are active people.  
b. the first have a definite philosophy and the second don't have any definite philosophy.  
c. the first believe in gradual change while the others believe in revolutionary change.  
d. the first are the products of Britain, while the others are products of Russia.
121. Which of the following were characteristics of St. Just and Robespierre?  
a. Unconcern for other's suffering                      b. Full confidence in their own wisdom  
c. Both (a) and (b)                      d. Neither (a) nor (b)
122. Which of the following according to the author, may not be the result of not verifying the desirability of socialism experimentally first?  
a. Bloodshed                      b. Deprivation of current comfortable existence  
c. Corruption in high places                      d. Misery caused by resisting the change
123. According to the philosophy of revolutionary socialism,  
a. the government takes over the villages first, and then gradually the whole country.  
b. the government takes over all productive resources of the country at one stroke.  
c. the government declares a police state and rules by decree.  
d. there is no government as such: the people rule themselves by the socialist doctrine.
124. The word 'avow' in the context of the passage means  
a. proclaim                      b. vow                      c. affirm                      d. deny
125. It may be inferred from the passage that the author's sympathies are for  
a. neither side.                      b. the side of the socialist doctrine.  
c. the second type of socialism.                      d. the first type of socialism.

## Passage – 4

Whatever philosophy may be, it is in the world and must relate to it. It breaks through the shell of the world in order to move into the infinite. But it turns back in order to find in the finite its always unique historical foundation. It pushes into the furthest horizons beyond being-in-the-world in order to experience the present in the eternal. But even the profoundest meditation acquires its meaning by relating back to man's existence here and now. Philosophy glimpses the highest criteria, the starry heaven of the possible, and seeks in the light of the seemingly impossible the way to man's dignity in the phenomenon of his empirical existence. Philosophy addresses itself to individuals. It creates a free community of those who rely on each other in their will for truth. Into this community the philosophic man would like to enter. It is there in the world all the time, but cannot become a worldly institution without losing freedom of its truth. He cannot know whether he belongs to it. No authority decides on his acceptance. He wants to live in his thinking in such a way as to make his acceptance possible. But how does the world relate to philosophy? There are chairs of philosophy at the universities. Nowadays they are an embarrassment. Philosophy is politely respected because of tradition, but despised in secret. The general opinion is: it has nothing of importance to say. Neither has it any practical value. It is named in public but does it really exist? Its existence is proved at least by the defence measures it provokes. We can see this in the form of comments like: Philosophy is too complicated. I don't understand it. It's beyond me. It's something for professionals. I have no gift for it. Therefore it doesn't concern me. But that is like saying: I don't need to bother work or scholarship without thinking or questioning its meaning, and, for the rest, have 'opinions' and be content with that. The defence becomes fanatical. A benighted vital instinct hates philosophy. It is dangerous. If I understood it I would have to change my life. I would find myself in another frame of mind, see everything in a different light, have to judge anew. Better now think philosophically! Then come the accusers, who want to replace the obsolete philosophy by something new and totally different. It is mistrusted as the utterly mendacious end product of a bankrupt theology. The meaninglessness of philosophical propositions is made fun of. Philosophy is denounced as the willing handmaiden of political and other powers. For many politicians, their wretched trade would be easier if philosophy did not exist at all. Masses and functionaries are easier to manipulate when they do not think but only have a regimented intelligence. People must be prevented from becoming serious. Therefore, it is better for philosophy to be boring. Let the chairs of philosophy rot. The more piffle is taught, the sooner people will be blinkered against the light of philosophy. Thus philosophy is surrounded by enemies, most of whom are not conscious of being such. Bourgeois complacency, conventionality, the satisfactions of economic prosperity, the appreciation of science only for its technical achievements, the absolute will to power, the bonhomie of politicians, the fanaticism of ideologies, the literary self-assertiveness of talented writers — in all these things people parade their anti-philosophy. They do not notice it because they do not realise what they are doing. They are unaware that their anti-philosophy is in itself a philosophy, but a perverted one, and that this anti-philosophy, if elucidated, would annihilate itself.

126. A suitable title for the passage would be

a. *Man and Philosophy*

b. *Philosophical Angst*

c. *A Defence of Philosophy*

d. *The Enemies of Philosophy*

127. Which of the following is true, keeping the passage in mind?

a. Philosophy is evidently respected

b. Philosophy is secretly despised

c. Both (a) and (b)

d. Neither (a) nor (b)

128. Which of the following is not a charge against philosophy?
- a. That it is obsolete
  - b. That it is mendacious
  - c. That it is the handmaiden of political powers
  - d. That it is immoral
129. Which of the following is not mentioned as a function of philosophy in the passage?
- a. It shows the way to man's dignity in the face of his empirical existence.
  - b. It breaks through the shell of the world in order to move into the infinite.
  - c. It pushes into the furthest horizons beyond being in the world.
  - d. It makes the world a better place to live in.
130. Why according to the passage, would the politicians be happy if philosophy did not exist?
- a. Masses would be easier to manipulate as they would not think for themselves.
  - b. They would not have to make false allegiances to ideologies.
  - c. They would not have to face allegations of ignoring philosophy.
  - d. They would not have to be philosophical about losing an election.
131. The word 'chairs', in the context of the passage, means
- a. wooden-faced people.
  - b. departments.
  - c. separate chairs for philosophers.
  - d. reserved seats for students of philosophy.
132. According to the author, the existence of philosophy is proved by
- a. the fact that there are still chairs of philosophy in universities.
  - b. the defence measures it provokes.
  - c. the polite respect it gets.
  - d. the fact that it answers the fundamental questions of life.

### Passage – 5

Even if we're a bit snooty about them, we should go down on our knees and thank heaven for movies like *Jurassic Park* and directors like Steven Spielberg who make them. They fill the cinemas, if only because the hype is virtually irresistible. And because they do so, hundreds of maniacs all over the world continue to finance films. But is this an example of a worldwide jackpot movie? Yes and no. Yes, because it delivers dinosaurs by the dozen, in as weird a fashion as have been seen on the screen before. And no, because the accompanying story, courtesy Michael Crichton, has little of the real imagination that made Spielberg's *ET* and *Close Encounters* into the jackpot movies of their time. Technically, it works like a dream but, as a cinematic dream, it's unmemorable. This may be because of its cardboard human characters, dwarfed by the assemblage of their prehistoric ancestors and serviced by a screenplay that makes the abortive mating calls of this weirdly asexual zoo seem eloquent in comparison. What kind of park is this?, enquires Sam Neil. "Oh, it's right up your alley", says Richard Attenborough. More likely, though it has something to do with the development of the story which at no point engages us properly on the human level, except perhaps to hope that the kids and Neil's grumpy scientist who learns to love them will finally escape from the grasp of the velociraptors chasing them. We're looking at

nothing but stunts, and they get tiresome laid end to end. Crichton's book was scarcely much better but at least it had a convincing villain in John Hammond, *Jurassic Park's* billionaire developer, whereas Attenborough's approximation seems merely enthusiastically misguided. And Crichton's warning of what might happen if we muck about with nature becomes weaker in the film. What we actually have in *Jurassic Park* is a non-animated Disney epic with affiliations to *Jaws* which seems to amuse and frighten but succeeds in doing neither well enough to count. Its real interest lies in how Spielberg's obsession with childhood now manifests itself in his middle age. It looks like being on automatic pilot — gestural rather than totally convinced but determined to remain the subject of analytical study. The whole thing, of course, is perfectly adequate fun once the ludicrously simplistic explanation of DNA has been traversed in Hammond's costly futuristic, computerised den. Even I could understand it. Thereafter, the theme park's creaky inability to deal with an ordinary old typhoon as its VIPs travel around hoping the investment will work, leads to predictable disasters, proficiently worked out but never truly frightening. But then this is a film for children of all ages, except perhaps those under 12, and one shouldn't expect sophistication on other than the technological level. *Jurassic Park* is more of a roller-coaster ride than a piece of real cinema. It delivers, but only on a certain plane. Even the breaking of the barriers between our civilization and a monstrous past doesn't have the kick it could have had.

Possibly one is asking for a different film which in the end would not have appealed across the box-office spectrum as well as this obviously does. But still one leaves it vaguely disappointed. All that work and just a mouse that roars. It's wonderful story, but told with more efficiency than inspiration — possibly a sign of the times, along with the merchandising spree which follows it so readily.

133. Which of the following has not been mentioned as a Steven Spielberg movie in the passage?
- |                            |                         |
|----------------------------|-------------------------|
| a. <i>Jaws</i>             | b. <i>ET</i>            |
| c. <i>Close Encounters</i> | d. <i>Jurassic Park</i> |
134. In which way does the author find the film inferior to the original book?
- |                                      |  |
|--------------------------------------|--|
| a. The book is more interesting.     | b. The book had a more convincing villain.         |
| c. The book is easier to understand. | d. The story had a good author but a bad director. |
135. The passage is most probably
- |                   |                              |
|-------------------|------------------------------|
| a. a book review. | b. a film critic's comments. |
| c. a film review. | d. a magazine article.       |
136. The book *Jurassic Park* is written by
- |             |                 |            |         |
|-------------|-----------------|------------|---------|
| a. Crichton | b. Attenborough | c. Hammond | d. Neil |
|-------------|-----------------|------------|---------|
137. Which of the following does the author say of the film?
- |   |
|---|
| a. The film is technically inferior and does not have a good storyline. |
| b. The film is technically inferior but has a good storyline.           |
| c. The film is technically slick but does not have a good storyline.    |
| d. The film is technically slick and has a good storyline.              |
138. The writer's opinion of the film *Jurassic Park* may be said to be
- |                     |                     |               |                         |
|---------------------|---------------------|---------------|-------------------------|
| a. very favourable. | b. very depressing. | c. excellent. | d. not very favourable. |
|---------------------|---------------------|---------------|-------------------------|



139. Why according to the author, should we thank heaven for movies like *Jurassic Park*, even though they may not be very good aesthetically?
- a. Because they fill the halls, and thus people will finance more films.
  - b. Because it is one of the major hits of the year.
  - c. Because the film has brilliant technical wizardry.
  - d. Because of the hundreds of films being produced, this is one of the few excellent ones.
140. According to the author, *Jurassic Park*
- a. is very amusing.
  - b. is very frightening.
  - c. Both (a) and (b)
  - d. Neither (a) nor (b)
141. The phrase 'muck about', in the context of the passage, means
- a. make dirty
  - b. interfere with
  - c. be frivolous about
  - d. to mask

### Passage – 6

The opinion polls had been wrong. Although they were signalling a weakening in Labour's lead in the days before the general election — which pointed to a hung parliament — many working-class voters had been embarrassed to tell middle-class pollsters that they were intending to vote Labour. The final result on April 9, 1992, which gave Neil Kinnock a working majority of 30, was a turnaround of the century.

As John Major cleared his desk in Downing Street, pundit after pundit lined up to criticise his lacklustre campaign. The trouble was, they all agreed, that the Conservative Party no longer had a message or political purpose. Its representation in the north of England was decimated; its future as a national party doubtful.

For Kinnock the victory was a sweet reward for nine years of Herculean labour in making his party electable. Not only had he a working majority, but the divisions in Conservative ranks — between anti-Europeans, free marketers and moderates — threatened to split the party. Having set himself the objective of heading a two or three term government, Kinnock made his cabinet appointments with the long haul in mind. There were few surprises. John Smith, with whom he coexisted uneasily, was made chancellor; Roy Hattersley became home secretary; Gerald Kaufmann went to the foreign office; inveterate Euro-sceptic Bryan Gould took over environment; and Gordon Brown went to trade. It was, as many commentators conceded, a much more heavyweight cabinet than any of the Conservatives could have mustered.

But the new cabinet was to have its first trial of strength very soon. The problem was the foreign exchange markets. Although both Kinnock and Smith had, throughout, the election campaign, reaffirmed their commitment to hold the pound's parity at 2.95DM inside the ERM, the foreign exchange markets simply did not believe them. Every previous Labour government had devalued; what reason was there to suppose this one would be different?

The pressure built up immediately. On Friday, April 10, the Bank of England managed to hold the line only by spending £4 billion — around a sixth of its total reserves — to support the exchange rate. But late that night, as the New York markets closed, the Governor of the Bank of England led the deputation to a meeting at 11, Downing Street with Smith and the permanent secretary to the Treasury, Sir Terence Burns. If, said the governor,

the pound was to survive the coming week inside the ERM, then Smith would have to demonstrate his resolve by raising interest rates — by at least 2 per cent. It would also help, added the officials, if the government were to commit Britain to full monetary union and to meet the Maastricht criteria for a single currency. This would mean that both the taxation from Smith's first budget would have to be used to reduce government borrowing and the manifesto promises to raise child benefit and pensions be postponed.

Smith listened to Eddie George — number two at the Bank of England and the arbiter of British exchange rate policy — explain that, at the current rate of reserve loss, Britain's reserves would have run out by the following weekend. The markets needed decisive action. And they needed to know, by the night of Sunday, April 12, at the very latest, what the government would do when the far-eastern markets opened after the weekend. Sir Terence advised that once the markets recognised the government was resolved to hold the exchange rate, pressure would quickly subside and the interest rate increases could be reversed. The name of the game was earning credibility.

Although Smith had been warned to expect a Treasury/Bank of England move to assert the cannons of economic orthodoxy, he had hoped to have been more than a few hours into his chancellorship before the pressures started to mount. As it stood, he felt like the victim of a coup and wondered to what extent the foreign exchange market selling had been prompted by the Bank of England's ham fisted intervention — almost designed to manufacture a run on the pound. In any case, he could do nothing without conferring with the prime minister.

In fact Kinnock had asked Smith to have the preliminary Bank of England meeting without him. Although he was not at one with his chancellor over economic policy and distrusted his judgement, he wanted to complete his cabinet appointments — and confer with his own advisers about how to react to what he knew the bank and treasury recommendations would be. He was determined to avoid being bounced into decisions before he had decided his line.

The alternative was to apply to the EC for a realignment conference, in which many more currencies would be devalued. But that could hardly be done then; it would have to wait until the following weekend. And it was not clear if the pound would be devalued sufficiently, or if other countries would follow the British lead. Not only might Britain have to devalue alone, it might not secure a devaluation large enough to make a difference; and be accompanied by higher interest rates.

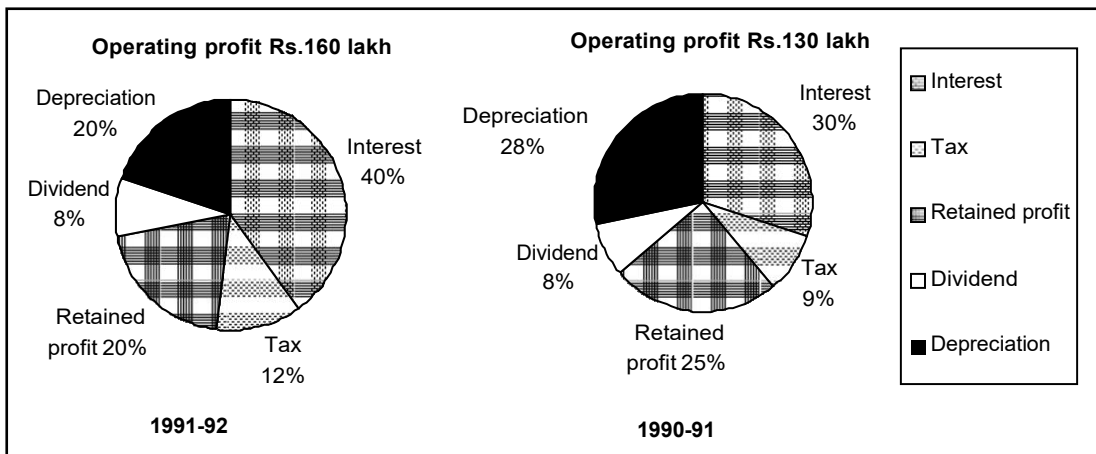
142. The word 'pundit', in the context of the passage, means  
a. a religious leader      b. a psychologist      c. an expert      d. a paleontologist
143. What was the main problem facing the new cabinet?  
a. The dissension in the ranks of the party.      b. The devaluation of the currency.  
c. The foreign exchange market problem.      d. The monetary union problem.
144. Who, according to the passage, is the leader of the Labour Party?  
a. Neil Kinnock      b. John Smith      c. Gerald Kaufmann      d. Roy Hattersley
145. What, according to the treasury secretary, was the only way out of the exchange problem?  
a. Devaluation of the currency      b. Rise in interest rates  
c. Government spending      d. Raising taxes

146. It may be inferred from the passage that
- a. the Bank of England would go along with whatever the government decided.
  - b. the prime minister was a puppet in the hands of the Bank of England.
  - c. the Bank of England was completely independent of the government.
  - d. the Bank of England could put enormous pressure on the government to formulate policy.
147. Why did Kinnock ask Smith to attend the Bank of England meeting without him?
- a. Because he did not get along with Smith.
  - b. Because he wanted to use that time to confer with others.
  - c. Because he already met them and did not want to meet them again.
  - d. Because he was afraid of being censured by them.
148. Why, according to the author, was the realignment conference not a viable option for the government?
- a. Because other countries may not follow the British lead in devaluation.
  - b. Because the higher interest rates to be given by Britain may deplete resources further.
  - c. Both (a) and (b)
  - d. Neither (a) nor (b)
149. Which of the following do not belong to the Labour cabinet?
- a. Mr John Smith
  - b. Mr Bryan Goul
  - c. Mr Maastricht
  - d. Mr G. Brown
150. What, according to the passage, was not a reason for the defeat of the Conservative Party?
- a. A lacklustre campaign
  - b. Wrong policies
  - c. No special message
  - d. No political purpose



157. The city in which minimum number of products increased their market shares in 1993-94 is  
a. Mumbai                      b. Delhi                      c. Kolkata                      d. Chennai
158. The market shares of which products did not decrease between 1993-94 in any city?  
a. HD                      b. CO                      c. BN                      d. None of these
159. The number of products which had 100% market share in four metropolitan cities is  
a. 0                      b. 1                      c. 2                      d. 3
160. The number of products which doubled their market shares in one or more cities is  
a. 0                      b. 1                      c. 2                      d. 3

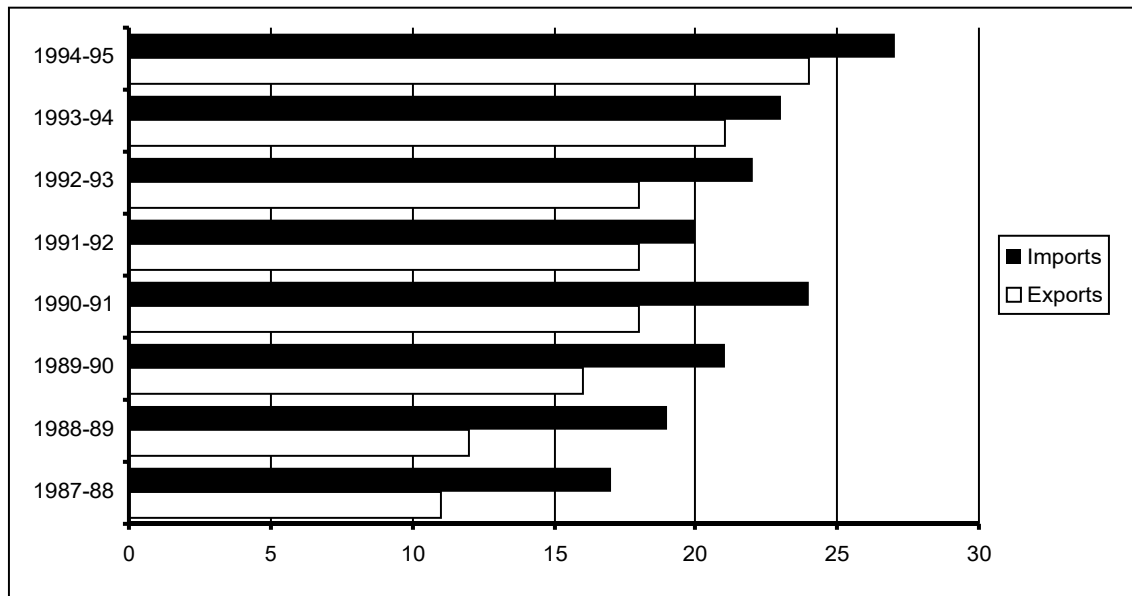
**Direction for questions 161 to 165:** Answer the questions based on the following piecharts.



161. The operating profit in 1991-92 increased over that in 1990-91 by  
a. 23%                      b. 22%                      c. 25%                      d. 24%
162. The interest burden in 1991-92 was higher than that in 1990-91 by  
a. 50%                      b. Rs.25 lakh                      c. 90%                      d. Rs.41 lakh
163. If on an average, 20% rate of interest was charged on borrowed funds, then the total borrowed funds used by this company in the given two years amounted to  
a. Rs.221 lakh                      b. Rs.195 lakh                      c. Rs.368 lakh                      d. Rs.515 lakh
164. The retained profit in 1991-92, as compared to that in 1990-91 was  
a. higher by 2.5%                      b. higher by 1.5%                      c. lower by 2.5%                      d. lower by 1.5%
165. The equity base of these companies remained unchanged. Then the total dividend earning by the share holders in 1991-92 is  
a. Rs.104 lakh                      b. Rs.9 lakh                      c. Rs.12.8 lakh                      d. Rs.15.6 lakh

**Direction for questions 166 to 170:** Answer the questions based on the following graph.

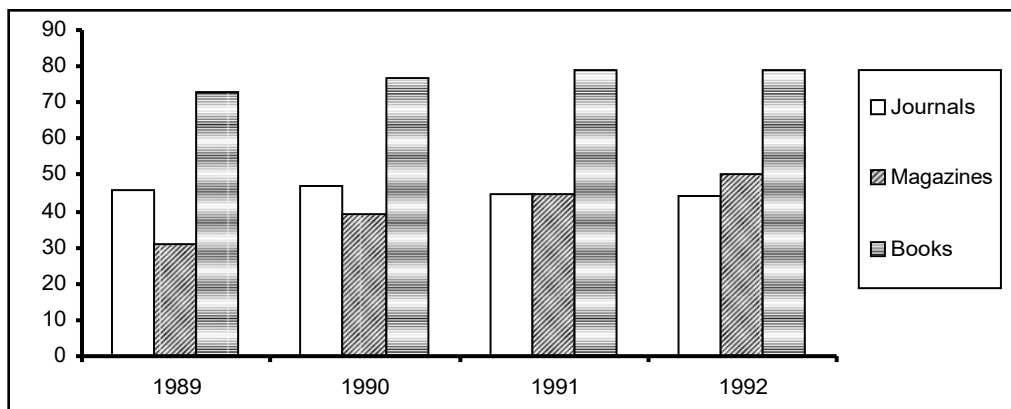
**Foreign trade (in billion dollars)**



166. In which year was the trade deficit highest?  
a. 1987-88                      b. 1988-89                      c. 1989-90                      d. 1990-91
167. In how many years was the trade deficit less than the trade deficit in the succeeding year?  
a. 1                                  b. 2                                  c. 3                                  d. 4
168. Export earning in 1990-91 is how many per cent of imports in 1991-92?  
a. 82%                              b. 85%                              c. 90%                              d. 15%
169. In the last three years, the total export earnings have accounted for how many per cent of the value of the imports?  
a. 80%                              b. 83%                              c. 95%                              d. 88%
170. Which of the following statements can be inferred from the graph?  
I. In all the years shown in the graph, the trade deficit is less than the export earning.  
II. Export earnings increased in every year between 1989-90 and 1991-92.  
III. In all the years shown in the graph, the earning by exports is less than the expenditure on imports in the preceding year.  
a. I only                              b. II only                              c. III only                              d. I and III only

**Direction for questions 171 to 175:** Answer the questions based on the following graph.

Revenue obtained by a publishing house while selling books, magazines and journals (Rs.in lakh).



171. Which year shows the highest change in revenue obtained from journals?  
a. 1989                      b. 1990                      c. 1991                      d. 1992
172. In 1992, what per cent of the total revenue came from books?  
a. 45%                      b. 55%                      c. 35%                      d. 25%
173. The number of years in which there was an increase in revenue from at least two categories is  
a. 1                      b. 2                      c. 3                      d. 4
174. If 1993 were to show the same growth as 1992 over 1991, the revenue in 1993 must be  
a. Rs.194 lakh              b. Rs.187 lakh              c. Rs.172 lakh              d. Rs.177 lakh
175. The growth in total revenue from 1989 to 1992 is  
a. 21%                      b. 28%                      c. 15%                      d. 11%

**Direction for questions 176 to 180:** Answer the questions based on the following table.

Machine M1 as well as machine M2 can independently produce either product P or product Q. The time taken by machines M1 and M2 (in minutes) to produce one unit of product P and product Q are given in the table below: (Each machine works 8 hour per day).

Product	M1	M2
P	10	8
Q	6	6

176. What is the maximum number of units that can be manufactured in one day?  
a. 140                      b. 160                      c. 120                      d. 180
177. If M1 works at half its normal efficiency, what is the maximum number of units produced, if at least one unit of each must be produced?  
a. 96                      b. 89                      c. 100                      d. 119

178. What is the least number of machine hours required to produce 30 pieces of P and 25 pieces of Q respectively?
- a. 6 hr 30 min                      b. 7 hr 24 min                      c. 6 hr 48 min                      d. 4 hr 6 min
179. If the number of units of P is to be three times that of Q, what is the maximum idle time to maximize total units manufactured?
- a. 0 min                      b. 24 min                      c. 1 hr                      d. 2 hr
180. If equal quantities of both are to be produced, then out of the four choices given below, the least efficient way would be
- a. 48 of each with 3 min idle                      b. 64 of each with 12 min idle
- c. 53 of each with 10 min idle                      d. 71 of each with 9 min idle

**Direction for questions 181 to 185:** Answer the questions based on the following information.

A company produces five types of shirts — A, B, C, D and E — using cloth of three qualities — high, medium and low -, using dyes of three qualities — high, medium and low. One shirt requires 1.5 m of cloth. The following table gives respectively:

1. The number of shirts (of each category) produced, in thousands
2. The percentage distribution of cloth quality in each type of shirt, and
3. The percentage distribution of dye quality in each type of shirt.

		Distribution of cloth (%)				Distribution of dye (%)			
Shirt type	Number in thousands	Shirt type	High	Medium	Low	Shirt type	High	Medium	Low
A	20	A	80	20	–	A	70	15	15
B	30	B	30	40	30	B	20	50	30
C	30	C	–	70	30	C	–	60	40
D	10	D	–	60	40	D	–	40	60
E	10	E	–	10	90	E	–	20	80

181. What is the total requirement of cloth?  
a. 1,50,000 m                  b. 2,00,000 m                  c. 2,25,000 m                  d. 2,50,000 m
182. How many metres of low-quality cloth is consumed?  
a. 22,500 m                  b. 46,500 m                  c. 60,000 m                  d. 40,000 m
183. How many metres of high quality cloth is consumed by A-type shirts?  
a. 8,000 m                  b. 112,000 m                  c. 24,000 m                  d. 30,000 m
184. What is the ratio of the three qualities of dyes in high-quality cloth?  
a. 2 : 3 : 5                  b. 1 : 2 : 5                  c. 7 : 9 : 10                  d. Cannot be determined
185. What is the ratio of low-quality dye used for C-type shirts to that used for D- type shirts?  
a. 3 : 2                  b. 2 : 1                  c. 1 : 2                  d. 2 : 3



# Answers and Explanations

[illegible]

1. a All others are synonyms meaning 'to tear or cut'.
2. b All others are synonyms of control.
3. a All others mean 'to start'; cease means to stop.
4. b All others mean 'on the edge'.
5. c All others refer to something said in praise.
6. c All others refer to a feeling of hatred.
7. d All others are adjectives meaning 'skillful'.
8. c All others are adjectives for persons who do not speak much.
9. b All others are synonyms.
10. d All others refer to persons who are madly enthusiastic about something.
11. c 'The student's' should be replaced with 'his'.
12. d We are talking about 'every man or woman', therefore the pronoun used should be singular 'his/her', instead of 'their'.
13. c The pronoun should remain consistent throughout the sentence, hence 'you' should be replaced with 'one'.
14. d 'Assure' is an intransitive verb and should be followed by an object. The correct usage here would be 'be sure of'.
15. c The man being referred here is the object to the verb, hence 'who' should be replaced with 'whom'.
16. c Both are pairs of antonyms.
17. d 'Alleviate' is an extended form of 'ease' and 'interrogate' is an extended form of 'question'.
18. b Both are pairs of synonyms. All four words mean 'secret'.
19. b Audience watch a drama and spectators watch a game.
20. a Just as a building can have many stories, a book can have many chapters.
21. d All others are pairs of synonyms.
22. b In all other pairs, the first word is a part of the second word.
23. c In all other pairs, the first word is an adjective referring to the second word.
24. b In all other pairs, the first word is an adjective derived from the second pair.
25. a In all other pairs, the first word refers to a fear of the second word.
26. b D tells us that the passage is about continuation of previous night's discussion. B states what the discussion was about. C adds a point to it by using 'also'. A answers the question raised in C about the reason of conflicts.
27. a B states that the document tells us about history, A states which part of history does it relate to, D elaborates further on the first generation poets by referring to Wordsworth and Coleridge.
28. d C introduces the poet's large plans, A shows how they were replaced by new plans, D states how even these plans remained unfulfilled and B tells us what was the ultimate outcome of the plans.
29. b B states our attitude towards value of time as we advance in life; C refers to the same by using the phrase 'we become miser in this sense'; and D shows how we become misers. A presents the concluding statement.
30. d C relates knowledge to ignorance; B relates our thinking to our knowledge and states that our knowledge is always limited, a fact which leads to D that states that as knowledge is limited, our thinking is also limited. A concludes the passage.
31. d C states India's position on exchange rate; A states why India's position is not surprising; B continues with the idea; D gives examples of exceptions to B.
32. d D talks about the 'power' introduced in 1. A states that if 'it is an anchor in difficulties, it should be remembered in good times too'. C states the work done by some organizations and B adds to it.
33. b B states what happens in the absence of punishment; A talks about the effect of such a situation; C adds to it by using 'also' and D states what can be done instead.
34. c C continues with the fact that the vessel was moving away; A states that he looked around; D states that it was of no use; B explains why there was no use of looking around.
35. d A continues with the idea introduced in 1. C states that the leader should be personally seen; D states what else should be insisted upon. B talks of allocating work to members in clear terms, and this should precede 6, which states how this has to be done.
36. d A states that true friends are very rare; C states that as they are rare, they should be respected; B states some factors which should not be considered while making friends; and D states that in business realities, all the acquaintances are motivated by self interest and thus cannot be treated as genuine friends.
37. a 1 states what managers should guard against; D states how one can do so; C continues by using 'also'. A states that external appearances can be deceptive; B elaborates on the fact and leads to 6.
38. b A states how demands for resources are made; C states what is done to offset adverse effects of cuts imposed by seniors; B states the importance of availability of adequate resources; and D re-emphasizes the point made in B.
39. d B continues with the idea introduced in 1. A relates the idea to managers in an organization, who have to take ruthless decisions; D states how these decisions can be made easier to accept. C talks about delegation of power, an idea that is continued in 6.

40. b C states how the first two categories mentioned in 1 should be dealt with, D talks about the last category; A continues by referring to 'the persons in this category'. B states how the wicked must be dealt with and leads to 6.
41. d Some dubbles are not bubbles but all dubbles are rubbles, so it follows that some of the rubbles are not bubbles.
42. b If all men are sad and all bad things are men, it follows that some sad things are bad.
43. c All Toms are bright, but no bright Tom is a Dick. Therefore, no Dick is a Tom.
44. b If all witches are devils and all devils are nasty, it implies that all witches are also nasty.
45. a No tingo is a bingo but all jingoes are bingos. Hence, no jingo is a tingo.
46. d One cannot devote one's whole life to understanding another culture, if to appreciate other cultures first one has to spend time understanding one's own culture and people.
47. a Fresh experience enriches the writers soul, thus renewing him, in turn leading to the writer being fertile.
48. a An idea that brings in a tremendous disparity would not be able to work for general convenience and advantage, as stated in the argument.
49. d
50. c The passage states that even those whom we intimately know, can surprise us at times with some unknown facet of their personality.
51. b Since base of each triangle will be counted once, Sum of perimeters of the triangles = Perimeter of the square +  $2 \times$  (Sum of its diagonals). But each of the other two sides of the triangles is common to two triangles, so it will be counted twice. Area of the square = 4, therefore length of its side = 2 and perimeter = 8. Also its diagonal =  $2\sqrt{2}$ . So the required perimeter =  $(8 + 2 \times 4\sqrt{2}) = 8(1 + \sqrt{2})$ .
52. b  $5^6 - 1 = (5^3)^2 - 1 = (125)^2 - (1)^2 = (125 + 1)(125 - 1) = 124 \times 126 = 31 \times 4 \times 126$ . So among the given answer choices, it is divisible by 31.
53. a After 2 years, the price of the flat will be  $(1)(1.10)^2 = \text{Rs.}1.21$  lakh. Correspondingly the price of the land will be  $(1.1)(1.05)^2 = \text{Rs.}1.21275$  lakh. Hence, the price of the plot =  $\text{Rs.}(1.21275 - 1.21)$  lakh =  $\text{Rs.}0.00275$  lakh =  $\text{Rs.}275$  more than that of the flat. Hence, if they exchange, Ram will have to pay this amount to Prem.

#### For questions 54 to 57:

Please note that the best way to solve this question is by working backwards.

E.g. after the 4th round, each one of them had Rs.32. Since it is Vibha who lost in this round, all the remaining three must have doubled their share.

In other words, they would have had Rs.16 each after the 3rd round.

Since the increase is of Rs.16 in each one's share, i.e., Rs.48 overall which comes from Vibha's share, her share before the 4th round was  $(32 + 48) = \text{Rs.}80$ , after the 3rd round.

Working backwards in this manner, we can get the following table.

	Share of each			
	Suvarna	Tara	Uma	Vibha
4. Vibha	32	32	32	32
3. Uma	16	16	16	$(32 + 48) = 80$
2. Tara	8	8	$(16 + 40 + 8 + 8) = 72$	40
1. Suvarna	4	$(8 + 4 + 36 + 20) = 68$	36	20
Initial	$(4 + 34 + 18 + 10) = 66$	34	18	10

54. c Suvarna started with Rs.66.
55. d It was Vibha who started with the lowest amount, viz. Rs.10.
56. a It was Suvarna who started with the highest amount, viz. Rs.66.
57. b At the end of the second round, Uma had Rs.72.
58. c **Hint:** The best way to solve this question is to multiply the alternatives by 72 and find which one gives you the middle three digits as 96.7. To save time, you can multiply 72 by integer values only. E.g.  $72 \times 3 = 216$ ,  $72 \times 5 = 360$  and  $72 \times 7 = 504$ . It is to be noted that when the decimal part of the answer will be multiplied by 72, the actual answer will increase. Let us now roughly multiply the decimal values of the options also by 72. E.g.  $72 \times 0.2 = 14.4$ ,  $72 \times 0.1 = 7.2$  and  $72 \times 0.5 = 36$ . So option (a) will yield  $(216 + 14) = 230$  (approximately), (b) will yield  $(360 + 7) = 367$  (approximately), (c) will yield  $(360 + 36) = 396$  (approximately) and (d) will yield  $(504 + 14) = 528$  (approximately). Of these, only option (c) satisfies our requirement of 2nd and 3rd digits being 96.

59. d Let us assume that the person has Rs.100.  
With this, he can buy 50 oranges or 40 mangoes.  
In other words, the price of an orange is Rs.2 and that of a mango is Rs.2.50.  
If he decides to keep 10% of his money for taxi fare, he would be left with Rs.90.  
Now if he buys 20 mangoes, he would spend Rs.50 and will be left with Rs.40.  
Thus, he can buy 20 oranges.

60. a The given expression is of the form  $\frac{[x^3 + y^3]}{[x^2 - xy + y^2]}$ .

We know,  $x^3 + y^3 = (x + y)(x^2 - xy + y^2)$ .

Thus, required value =  $(x + y) = (55 + 45) = 100$ .

61. c The largest angle in a right-angled triangle is  $90^\circ$ , which corresponds to the highest part of the ratio.  
Let us evaluate each option.  
In (a), the remaining two angles would be  $30^\circ$  and  $60^\circ$ , which is possible.  
In (b), the remaining two angles would be  $45^\circ$  each, which is again possible.  
In (c), the remaining two angles would be  $15^\circ$  and  $45^\circ$ , which is not possible as the sum of the angles is not  $180^\circ$ .

62. d Since  $n(n + 1)$  are two consecutive integers, one of them will be even and thus their the product will always be even.

Also, sum of the squares of first 'n' natural numbers is

given by  $\frac{n(n+1)(2n+1)}{6}$ .

Hence, our product will always be divisible by this.

Also you will find that the product is always divisible by 3 (you can use any value of n to verify this).

However, we can find that option (d) is not necessarily true. E.g. If  $n = 118$ ,  $(2n + 1) = 237$  or if  $n = 236$ , then  $(n + 1) = 237$  or if n itself is 237, etc.

63. b The best way to solve this question is by the method of simulation. Choose any prime number greater than 6 and verify the result.

When 7 is divided by 6, it gives a remainder 1. So our answer could be (a) or (b). When 11 is divided by 6, it gives a remainder 5. Hence, our answer is (b).

64. \* There cannot be four or more blue balls.

Case 1:

If there are three blue balls, then they can be only in box 1, 3 and 5.

Case 2:

If there are two blue balls, then total number of cases =  ${}^5C_2 = 10$

But in 4 cases the blue ball will be in adjacent boxes. These cases are when blue balls in boxes 1 and 2 or 2 and 3 or 3 and 4 or 4 and 5.

Therefore, total number of cases when there are two blue balls =  $10 - 4 = 6$

Case 3:

If there are one blue ball, then total number of cases =  ${}^5C_1 = 5$

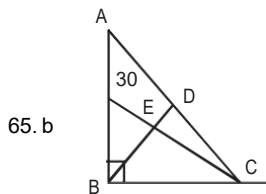
Case 4:

If there are no blue ball, then total number of cases =

${}^5C_5$   
= 1

Hence, total number of cases =  $1 + 6 + 5 + 1 = 13$ .

\* The correct answer is not available in the given options.



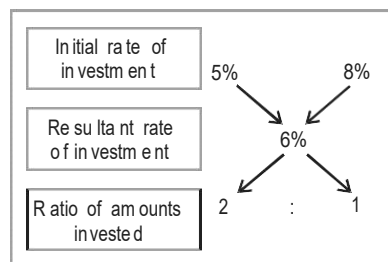
In  $\triangle ABC$ ,  $\angle ACB = 180 - 90 - 30 = 60^\circ$ .

$\therefore \angle DCE = 30^\circ$ , since  $\angle CDE = 90^\circ$ .

In  $\triangle CED$ ,  $\angle CED = 180 - 90 - 30 = 60^\circ$ .

66. c Using alligation, the ratio of the amounts invested at both the rates =  $2 : 1$ .

Since he has invested Rs.3,000 at 5%, he should further invest Rs.1,500 at 8% to earn a total interest of 6% per annum.



#### Alternative method:

Let the amount invested at 8% be Rs.x.

Then,

$$3000 \times \frac{105}{100} + x \times \frac{108}{100} = (3000 + x) \frac{106}{100}$$

$$\Rightarrow 0.02x = 30 \Rightarrow x = 1,500$$

$\therefore$  He should further invest Rs.1,500 at 5% to earn a total interest of 6% per annum.

67. a Let there be 100 voters in all.

Initially, 40 of these promised to vote for P, while 60 of them promised to vote for Q.

On the last day, (15% of 40) = 6 voters went back of their promise and voted for Q.

Also, 25% of 60 = 15 voters shifted their interest from Q to P.

So finally, P end up getting  $(40 - 6 + 15) = 49$  votes and Q end up getting  $(60 - 15 + 6) = 51$  votes.

Hence, margin of victory for Q =  $(51 - 49) = 2$ , which is true. Hence, there were 100 voters in all.

68. a In the given figure, the area of the circle =  $\pi r^2$ .

To find out the area of the circle, we need to find out the length of the side of the square.

We know,  $OR = OT + TR = OT + OS = 2r$ .

In right-angled triangle ORS,  $OR = 2r$  and  $OS = r$ .

So  $SR^2 = OR^2 - OS^2$ .

But  $SR^2 = \text{Area of the square} = 4r^2 - r^2 = 3r^2$ .

Hence, the required ratio =  $\frac{\pi}{3}$ .

69. a In the same time as A runs 200 m in the race, S runs 180 m and N runs 160 m.  
In other words, in the same time as S runs 180 m, N runs 160 m.  
So in the same time as S runs 100 m, N will run

$$\left(100 \times \frac{160}{180}\right) = 88.89 \text{ m.}$$

Hence, in a 100 m race, S will beat N by  $(100 - 88.89) = 11.11$  m.

70. b If the numbers are  $(x - 2)$ ,  $x$  and  $(x + 2)$ , then  
 $3(x - 2) - 2 = 2(x + 2)$ .  
 $\therefore x + 2 = 14$ .
71. a If  $x$  men were there on day one, there would be  $(x - 110)$  men on the 12th day.  
Hence, on an average, there were  $(x - 55)$  men.

The job takes  $\frac{3}{2}$  times the normal time.

Hence, the average number of people =  $\frac{2}{3}$ .

$$\Rightarrow x - 55 = \frac{2}{3}x$$

Hence,  $x = 165$

72. a Total number of four-digit numbers that can be formed =  $4!$ .  
If the number is divisible by 25, then the last two digits are 25.  
So the first two digits can be arranged in  $2!$  ways.

Hence, required probability =  $\frac{2!}{4!} = \frac{1}{12}$ .

73. c Let the first typist takes  $X$  hours and the second takes  $Y$  hours to do the whole job.  
When the first was busy typing for 3 hr, the second was busy only for 2 hr.

Both of them did  $\frac{11}{20}$  of the whole work.

$$\therefore \frac{3}{X} + \frac{2}{Y} = \frac{11}{20}$$

When the assignment was completed, it was revealed that each typist had done half the work.

$\therefore$  The first one spent  $\frac{X}{2}$  hr, and the second,  $\frac{Y}{2}$  hr.

And since the first had begun one hour before the

second, we have  $\frac{X}{2} - \frac{Y}{2} = 1$

$$\Rightarrow X = 10 \text{ hr, } Y = 8 \text{ hr.}$$

74. d Since I live  $X$  floors above the ground floor and it takes me 30 s per floor to walk down and 2 s per floor to ride the lift, it takes  $30X$  s to walk down and  $2X$  s to ride the lift after waiting 420 s.  
 $\Rightarrow 30X = 2X + 420 \Rightarrow X = 15$ .

**Alternative method:**

$X > 14$  as time taken to walk has to be greater than 7 min.

75. d Since 5-12-13 forms a Pythagorean triplet, the triangle under consideration is a right-angled triangle with height 12 and base 5.

$$\text{So area of the triangle} = \left| \left( \frac{1}{2} \right) \right| (12)(5) = 30 \text{ sq. units.}$$

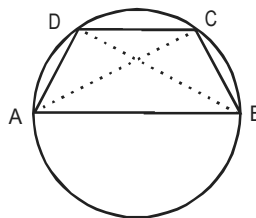
If area of the rectangle with width 10 units is 30 sq. units, its length = 3 units.

Hence, its perimeter =  $2(10 + 3) = 26$  units.

76. c Since  $AD = BC$  (Opposite sides of a rectangle are equal.)  
 $AB + AC = 5BC$  and  $AC - BC = 8$  or  $AC = BC + 8$   
 $\therefore AB = 4(BC - 2)$   
 By Pythagoras' Theorem,  $AB^2 + BC^2 = AC^2$   
 Expressing  $AB$  and  $AC$  in terms of  $BC$  we get,  $BC = 5$ .  
 $\therefore AB = 12$  and  $AC = 13$   
 So area of the rectangle =  $5 \times 12 = 60$ .

77. d If the roots are  $a$  and  $a^2$ , the product of roots =  $a^3 = -8$ .  
 $\therefore a = -2$ .  
 Hence, sum of the roots =  $k = -(a + a^2) = -(-2 + 4) = -2$ .

78. a



If we draw the imaginary lines  $AC$  and  $BD$ , we find that  $\angle CAD$  and  $\angle CBD$  are subtended by the same chord  $DC$ .

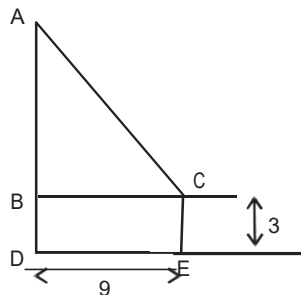
$\therefore \angle CAD = \angle CBD = 30^\circ$ .

Thus,  $\angle DBA = (70 - 30) = 40^\circ$ .

Also,  $\angle DBA$  and  $\angle ACD$  are subtended by the same chord  $DA$ .

Hence,  $\angle ACD = \angle DBA = 40^\circ$ .

79. b



The figure can be drawn as shown above.

Height of the wall =  $AD = AC = (AB + 3)$  or  $AB = (AC - 3)$ .

In right-angled triangle  $ABC$ ,  $AB^2 + BC^2 = AC^2$ .

Thus,  $(AC - 3)^2 + 81 = AC^2$ .

$\therefore AC = 15$  m.

Hence, height of the wall = 15 m.

**Hint:** Please note that the same multiple of all the triplets should also be triplets. E.g. if 3-4-5 is a triplet, then 3(3-4-5) should also be triplet or 9-12-15 is also a triplet. Note that the base of the triangle is 9, so other two sides should be 12 and 15.

80. b Profit percentage in each case is

(i) 10%

$$(ii) \frac{(100 \times 100)}{900} = \frac{100}{9} \%$$

$$(iii) \frac{100 \times 1.1 \cdot 1 - 100}{100} \times 100 = 10 \%$$

$$(iv) \frac{(10 \times 100)}{95} = \frac{200}{19} \%$$

81. b Let the length of the escalator be 90 ft.  
(There is no loss of generality in making this assumption.)

Let the speed of the escalator be  $y$  ft per second and the man's walking speed be  $x$  ft per second.

According to the question, we get

$$\frac{90}{30} = x + y$$

$$\frac{90}{90} = x - y$$

Adding the above equations, we get  $2x = 4$ , i.e.,  $x = 2$ .

$\therefore$  Time taken by the man to walk up the escalator

$$\text{when it is not moving} = \frac{90}{2} \text{ or } 45 \text{ s.}$$

82. a Let one of the numbers be  $x$ . So the other number would be  $(x + 4)$ .

According to the question, we have

$$\frac{1}{x} + \frac{1}{(x+4)} = 21 \text{ or } x = 3.$$

**Hint:** Please note that the sum of reciprocals is basically

$$\frac{(\text{Sum of the integers})}{(\text{Product of the integers})} \quad \text{So we have to find two}$$

integers whose sum is 10 and whose product is 21.

So  $x + (x + 4) = 10$  or  $x = 3$ .

83. b The bells will chime together after a time that is equal to the LCM of 18, 24 and 32 = 288 min = 4 hr and 48 min.

84. d  $3m^2 - 21m + 30 < 0$

$$\therefore m^2 - 7m + 10 < 0 \Rightarrow (m - 5)(m - 2) < 0.$$

So either  $(m - 5) < 0$  and  $(m - 2) > 0$  or  $(m - 2) < 0$  and  $(m - 5) > 0$ .

Hence, either  $m < 5$  and  $m > 2$ , i.e.,  $2 < m < 5$  or  $m < 2$  and  $m > 5$ .

85. d Required cost =  $6 \left[ 1 + \frac{1000}{100} \right] = 6(11)^2 = 121 \times 6 = 726.$

86. c If  $x = 1$ , we have  $\min(3, 3) = 3$ .

If  $x = 2$ , we have  $\min(6, 0) = 0$ .

If  $x = 3$ , we have  $\min(11, -3) = -3$ .

If  $x = 0.5$ , we have  $\min(2.25, 4.5) = 2.25$ .

If  $x = 0.3$ , we have  $\min(2.09, 5.1) = 2.09$ .

Thus, we find that as  $x$  increases above 1 and when it decreases below 1, the value of the function decreases. It is maximum at  $x = 1$  and the corresponding value = 3.

**Hint:** Please note that the highest value of the given fraction will be at a point where  $(2 + x^2) = (6 - 3x)$ , as even if one of the values increases beyond this, the other value will be the minimum value.

If we equate the two, we get  $x^2 + 3x - 4 = 0$ . Solving this, we get  $x = 1$  or  $x = -4$ .

Since  $x > 0$ , it has to be 1 and hence the result.

87. d Let us choose a town, say A.  
If I were to consider this as the base town and construct two roads such that I connect any pair of towns, I get the following combinations:

1. AB - BC, 2. AB - BD, 3. AC - CB, 4. AC - CD, 5. AD - DB and 6. AD - DC.

From any of these combinations, if I were to construct a road such that it again comes back to A, then it would form a triangle.

To avoid a triangle, the third road that I construct should not be connected to A but to the third town.

Hence, the combination would be:

1. AB - BC - CD, 2. AB - BD - DC, 3. AC - CB - BD, 4. AC - CD - DB, 5. AD - DB - BC and 6. AD - DC - CB. Thus, from each town, we can construct 6 such combinations.

Hence, total number of combinations that we can have from four towns =  $(6 \times 4) = 24$ .

88. a If  $a = -2$  and  $b = -3$ , then our expression will be  $\text{me}(-2 + \text{mo}(\text{le}(-2, -3)), \text{mo}(-2 + \text{me}(\text{mo}(-2), \text{mo}(-3))))$   
 $= \text{me}(-2 + \text{mo}(-3), \text{mo}(-2 + \text{me}(2, 3)))$   
 $= \text{me}(-2 + 3, \text{mo}(-2 + 3))$   
 $= \text{me}(1, \text{mo}(1)) = \text{me}(1, 1) = 1.$

89. d Please note that the fastest way to solve these sums is the method of simulation, i.e., select any arbitrary values in the range given and verify whether the option holds good. E.g.  $a = 2$ ,  $b = 3$ .

In this case, option (a)  $\text{LHS} = \text{mo}(\text{le}(2, 3)) = \text{mo}(2) = 2$ .  $\text{RHS} = (\text{me}(\text{mo}(2), \text{mo}(3))) = (\text{me}(2, 3)) = 3$ . Hence,  $\text{LHS} < \text{RHS}$ .

(b)  $\text{LHS} = \text{mo}(\text{le}(2, 3)) = \text{mo}(2) = 2$ .  $\text{RHS} = (\text{me}(\text{mo}(2), \text{mo}(3))) = (\text{me}(2, 3)) = 3$ . Hence,  $\text{LHS} < \text{RHS}$ .

(c)  $\text{LHS} = \text{mo}(\text{le}(2, 3)) = \text{mo}(2) = 2$ .  $\text{RHS} = (\text{le}(\text{mo}(2), \text{mo}(3))) = \text{le}(2, 3) = 2$ . Hence,  $\text{LHS} = \text{RHS}$ .

(d)  $\text{LHS} = \text{mo}(\text{le}(2, 3)) = \text{mo}(2) = 2$ .  $\text{RHS} = (\text{le}(\text{mo}(2), \text{mo}(3))) = \text{le}(2, 3) = 2$ . Hence,  $\text{LHS} = \text{RHS}$ .

90. b Let us verify by taking arbitrary values of  $a$  in the range specified.

(a)  $a > 3$ . Let  $a = 4$ .

$$\text{So } \text{me}(a^2 - 3a, a - 3) = \text{me}(4, 1) = 4 > 0.$$

(b)  $0 < a < 3$ . Let  $a = 2$ .

$$\text{So } \text{me}(a^2 - 3a, a - 3) = \text{me}(-2, -1) = -1 < 0.$$

(c)  $a < 0$ . Let  $a = -1$ .

$$\text{So } \text{me}(a^2 - 3a, a - 3) = \text{me}(4, -4) = 4 > 0.$$

(d)  $a = 3$ ,  $\text{me}(a^2 - 3a, a - 3) = \text{me}(0, 0) = 0$ .

91. d We can work this on the above lines. E.g.

(a)  $a > 3$ . Let  $a = 4$ . So  $\text{le}(a^2 - 3a, a - 3) = \text{le}(4, 1) = 1 > 0$ .

(b)  $0 < a < 3$ . Let  $a = 2$ . So  $\text{le}(a^2 - 3a, a - 3) = \text{le}(-2, -1) = -2 < 0$ .

(c)  $a < 0$ . Let  $a = -1$ . So  $\text{le}(a^2 - 3a, a - 3) = \text{le}(4, -4) = -4 < 0$ .

92. a Statement I suggests that xyz is odd. This is only possible if all three of them are odd.  
Hence,  $z - x$  is even.  
So only statement I is required to answer the question.
93. d Statement I is useless as it only tells that if x and y are consecutive positive even integers, then  $(x - y)^2$  has to be equal to 4.  
Statement II suggests the possibility that the numbers could be 2 and 4. But it does not suggest which is x and which is y.  
Hence, we cannot find the value of x using either statements.
94. a It is clear that only statement I is required to answer the question, if  $CP = 0.8$  SP, then  $SP = \left(1 \div \frac{1}{0.8}\right) CP$ .  
 $\therefore SP = 1.25 CP$   
Thus, profit percentage is 25.
95. c Both statements are required to answer the question. Statement I tells us that the triangle is an isosceles triangle. In an isosceles triangle, the altitude is also the median and bisects the third side.  
  
Hence, if we know the altitude length and the length of the congruent sides in an isosceles triangle, we can find its base. And if we know the base and the height of a triangle, we can find its area.
96. b Statement II in itself suggests the price of a banana. Since we can buy 48 bananas in Rs.12, price of a banana = Re.0.25. And since this price is after 50% reduction, the actual price of a banana = Re.0.5.
97. a Since 116 is less than  $11^2$ , it can be figured out that both the first two terms of the AP should be less than 10. There is only one pair of positive integers whose squares add up to 116 and they are 10 and 4.  
Thus, these two should be the first two terms of the AP. Hence, the first term is 4, and can be obtained only from statement I.  
Statement II merely suggests that the fifth term is of the form 7k. Nothing correct can be concluded from this.
98. c This can be solved using both the statements together.  
  
From statement I, we know that  $L \times B = 48$  or  $B = \frac{L}{48}$   
From statement II, we know  $L^2 + B^2 = 100$   
Combining statements I and II,  
$$L^2 + \left(\frac{L}{48}\right)^2 = 100.$$
  
L is the only unknown in this equation and can be found out.
99. c We know that product of two numbers = LCM  $\times$  HCF  
 $= 36 \times 2 = 72$ .  
$$\text{So } x = \frac{72}{18} = 4.$$
  
Hence, both the statements are required to answer the question.
100. c This can be answered using both the statements.  
Statement II suggests that both t and z are odd.  
Statement I suggests that  $(x + y + t)$  is even.  
Since the difference between an even and an odd number is always odd,  $(x + y + t) - z$  will be odd.
101. d The dismantling of the welfare state helped Gingrich lead to the Republican revolution of 1994. Refer second paragraph line 2.
102. b Money has not been mentioned as what a party needs to win elections. Refer first paragraph, line 1.
103. d All of the mentioned names belong to the Republicans.
104. a They were tactically defeated by the Democrats because of the government shutdown. Refer fourth paragraph line 2.
105. b The passage is basically about the mistakes committed by the Republicans and their odd ways of thinking.
106. a 'Obsolete' has been used to imply old/antiquated.
107. c The real danger to the Republicans is the fact that its axioms, and not its policies, are under fire. Refer ninth paragraph line 1.
108. a The idea of small governments is being ground to dust by Buchman. Refer seventh paragraph line 1.
109. c A car, a jeep and a snowplough have been mentioned here.
110. c The weather bulletin has been compared to a ritual ceremony. Refer fifth paragraph line 2.
111. b An earthquake had caused the Mississippi to flow northward.
112. b The author says that weather organizes people into a shared moment, hence inspite of being destructive, it can be said to be stimulating.
113. a The use of the language to describe the snow storm reflects the author's fascination with it.
114. b The greatest attractions of weather, for the author, is that it is apolitical.
115. a The author is watching the weather channel, thus he is in his house.
116. b The weather is not manipulable.
117. d 'Undulously' means curved.
118. d All are socialists, though Robespierre has been mentioned as an example of a person who till now was thought to be a typical instance of attributes needed for being a revolutionary socialist, does come up to them.
119. a The second form of socialism involves all the difficulties of the first one and much more.
120. c The difference is in their attitude towards change.

121. c Both have been mentioned as the characteristics of the two persons.
122. c Corruption in high places has not been mentioned in the passage.
123. b The aim of the revolutionary socialism is to substitute the new rule for the old one at one stroke.
124. a 'Avow' means to proclaim.
125. a The author does not sympathize with either of the two sides.
126. c The author has tried to defend philosophy in the passage.
127. c The passage states that philosophy is politely respected but secretly despised.
128. d Philosophy has not been said to be immoral.
129. d Philosophy has not been mentioned as being responsible for making the world a better place to live in.
130. a If philosophy did not exist, masses would not think for themselves, and would thus be easier to manipulate for the politicians.
131. b 'Chairs at the universities' refers to the departments at the universities.
132. b The existence of philosophy is proved by the defence measures it provokes.
133. a *Jaws* has not been mentioned as Spielberg's movie.
134. b The author says that at least the book had a convincing villain.
135. c The passage is obviously talking about a film review.
136. a The book was written by Crichton.
137. c The author praises the film for its technical effects and sophistication at the technological level, but is disappointed with its story line.
138. d The writer says, "one leaves it vaguely disappointed."
139. a He is thankful for such films because they fill the cinemas, and this leads people to continue financing films.
140. d The author finds it neither frightening nor amusing.
141. b 'Muck about with nature' implies 'interfere with nature'.
142. c 'Pundit' in the passage means an expert.
143. c The problem the new cabinet faced was of the foreign exchange market. Refer first line paragraph fourth.
144. a Neil Kinnock has been mentioned as being the leader of the Labour Party. Refer first line paragraph third.
145. b The only way out was to raise the interest rates by at least 2 per cent. Refer fifth paragraph line 6.
146. d We can infer that the Bank of England could exert enormous pressure on the government in its policy formulation.
147. b He wanted to complete his cabinet appointments and to consult his own advisors.

148. a It was not clear if the other countries would follow the lead, hence realignment was not a viable option.
149. c Maastricht has not been mentioned as part of the Labour cabinet.
150. b The wrong policies have not been mentioned as a reason for the defeat of the Conservative Party.
151. d We know, Dividends + Retained earnings = Profit before tax – Tax.

Tax = Profit before tax – (Dividends + Retained earnings).

Figure (in Rs. Lakh)	1991	1992	1993	1994
<b>Profit before Tax</b>	315	170	525	790
<b>Dividends + Retained earnings</b>	170	100	305	510
<b>Tax</b>	145	70	220	280
<b>Tax per rupee of 'Profit before tax'</b>	0.46	0.41	0.42	0.35

Hence, tax per rupee of 'Profit before Tax' was the lowest in 1994.

152. a

Figure (in Rs. Lakh)	1991	1992	1993	1994
<b>Sales</b>	3270	2620	4725	6435
<b>Share Capital</b>	98	98	205	310
<b>Sales per rupee of share capital</b>	33.36	26.73	23.04	20.75

Hence, sales per rupee of share capital was the highest in 1991.

153. d

Figure (in Rs. Lakh)	1991	1992	1993	1994
<b>Profit before Tax</b>	315	170	525	790
<b>Sales</b>	3270	2620	4725	6435
<b>Profit before tax per rupee of sales</b>	0.09	0.06	0.11	0.12

Hence, profit before tax per rupee of sales was the highest in 1994.



154. a

Figure (in Rs. Lakh)	1991	1992	1993	1994
Reserves	80	220	290	535
Retained earnings	140	70	245	400
Percentage addition to reserves	175%	31.81%	84.48%	74.76%

Hence, the highest percentage addition to reserves was in 1991.

155. a From the above table, it is clear that the amount of reserves at the end of 1994 = (535 + 400) = Rs.935 lakh.

156. b It can be seen that the market share of CO in Kolkata has halved in 1994. None of the other products show such a drastic decrease in any city. Hence, percentage decrease in market share = 50%.

157. b Mumbai and Kolkata have two products whose market shares were increased. Chennai has 1 while Delhi has none.

158. d We can see that among the given options, the market share of HD decreased in Mumbai, Kolkata and Delhi. The market share of CO decreased in Kolkata, Delhi and Chennai and the market share of BN decreased in Mumbai.

159. a None of the products had 100% market share.

160. b Only MT doubled its market share in Kolkata in 1993-94.

161. a Percentage increase =  $(160 - 130) \times \frac{100}{130} = \frac{30}{13} = 23\%$ .

162. b Interest in 1990-91 = 30% of 130 = Rs.39 lakh  
Interest in 1991-92 = 40% of 160 = Rs.64 lakh  
Hence, required difference = (64 - 39) = Rs.25 lakh

163. d Total interest = (30% of 130) + (40% of 160) = (39 + 64) = Rs.103 lakh.  
If this total interest is charged on borrowed funds, then (20% of borrowed funds) = 103. Hence, borrowed funds =  $(5 \times 103) = \text{Rs.}515 \text{ lakh}$ .

164. d Retained profit in 1990-91 = (25% of 130) = Rs.32.5 lakh  
Retained profit in 1991-92 = (20% of 160) = Rs.32 lakh  
Hence, percentage change in retained profit  
 $= \frac{(32.5 - 32)}{32.5} = 1.5\% \text{ lower.}$

165. c Total dividend earned by shareholders in 1991-92 = (8% of 160) = Rs.12.8 lakh.

**For questions 166 to 170:** The graph given in the question can be expressed as a table given below.

Year	Import	Export	Trade Deficit
1987-88	17	11	6
1988-89	19	12	7
1989-90	21	16	5
1990-91	24	18	6
1991-92	20	18	2
1992-93	22	18	4
1993-94	23	21	2
1994-95	27	24	3
	173	138	

166. b Trade deficit = Imports - Exports, was the highest for the year 1988-89, viz. 7 billion dollars.

167. d Trade deficit is less than that in the succeeding year in 1987-88, 1989-90, 1991-92 and 1993-94.

168. c Required percentage =  $\frac{18}{20} \times 100 = 90\%$

169. d In the last three years, Imports = (22 + 23 + 27) = 72 and Exports = (18 + 21 + 24) = 63. Hence, the required percentage =  $\frac{63}{72} \times 100 = 87.5\% = 88\% \text{ (approximately).}$

170. a The first statement is obviously true as the trade deficit in each year is less than the export earning. The export earning has remained constant for three years between 1990 and 1993. Hence, statement II is not true. Even statement III is not true as the exports in 1994-95 is more than the imports in 1993-94.

**For questions 171 to 175:** The graph given in the question can be depicted in the following table:

	1989	1990	1991	1992
Journals	46	47	45	44
Magazines	31	39	45	50
Books	73	77	79	79
Total	150	163	169	173

171. c The highest change in the revenue obtained from journals is  $(47 - 45) = 2$  in 1991.

172. a In 1992, percentage of total revenue that came from books =  $\frac{79}{173} \times 100 = 45.6\% = 45\%$  (approximately).

173. b In 1990, there was an increase in revenue for all the 3 categories. In 1991, it increased for magazines and books. And in 1992, it increased only for magazines. So the answer is b, viz. 2 years.

174. d Growth rate in 1992 over 1991 =  $\frac{(173-169)}{169} = 2.36\%$ .

If this rate remained same in 1993 as well, then the revenue in 1993 would be  $173 \times \left(1 + \frac{2.36}{100}\right) = \text{Rs. } 177$  lakh.

175. c Percentage growth in the total revenue from 1989 to 1992 =  $\frac{(173-150)}{150} = 15.33\% = 15\%$  (approximately).

176. b Since time taken to manufacture Q by both the machines is the least, we have to manufacture only Q in order to maximize the output for the day. In such a case, total number of units of Q produced by M1 =  $\frac{(8 \times 60)}{6} = 80$  units and that by M2 =  $\frac{(8 \times 60)}{6} = 80$  units. So the maximum number of units that can be produced in one day =  $(80 + 80) = 160$  units.

177. d If M1 works at half of its normal efficiency, time taken by M1 to manufacture 1 unit of P = 20 min and Q = 12 min. For producing maximum number of units, we have to produce Q on M2 first as it takes only 6 min per piece. Also since at least one unit of P has to be manufactured and it is more efficient to do so on M2, we would do that. So time taken to manufacture 1 unit of P on M2 = 8 min. Hence, time remaining on M2 =  $(480 - 8) = 472$ . In this remaining time number of units of Q that can be

manufactured on M2 =  $\frac{472}{6} = 78$  (only completed units

taken). Now since it takes less time to manufacture Q on M1 as well, we will maximize Q on M1. Since 1 unit of

number of units that can be produced =  $\frac{(8 \times 60)}{12} = 40$ .

Hence, the total number of units manufactured =  $(1 + 78 + 40) = 119$  units.

178. a In order to minimize time required, we will manufacture P on M2 and Q on M1. Number of machine hours required to manufacture 30 units of P on M2 =  $(30 \times 8) = 240$  min = 4 hr. Number of machine hours required to manufacture 25 units of Q on M1 =  $(25 \times 6) = 150$  min = 2.5 hr. So total time taken =  $(4 + 2.5) = 6.5$  hr or 6 hr 30 min.

179. a Since P has to be produced in more number than Q and since time taken to produce P is least on M2, to maximize the output utilize the entire time available on M2 for producing P. Number of units of P produced in this time =  $\frac{(8 \times 60)}{8} = 60$  units. Now since the number of units of

Q should be one-third that of P, we should manufacture 20 units of Q. To manufacture this on M1, it would take  $(20 \times 6) = 120$  min. So there are still  $(480 - 120) = 360$  min of M1 to be utilized. Now for every 3 units of P that is manufactured, we have to manufacture 1 unit of Q. To run one such cycle on M1, it would take  $(3 \times 10 + 1 \times 6) = 36$  min. Hence in 360 min, we have 10 such cycles and utilize all the idle time of M1. Hence, to maximize the output under the given condition it is possible to have no idle time on any of the machines.

180. c The least efficient way is the option that gives least production with highest idle time. So we can compare the options in the following two ways. Assume that production is constant (viz. LCM of 48, 64, 53 and 71) in all 4 options and compare the corresponding idle time. Or we can assume the idle time to be constant (viz. LCM of 3, 12, 10 and 9) in all 4 options and compare the corresponding production. The latter method is more preferable as finding LCM of idle time is easier. So LCM

of 3, 12, 10 and 9 is 360. If we assume that idle time has to be 180 min, then as per option (a) we would get

production =  $\left(\frac{180}{3} \times 48\right) = 2,880$  units, as per option

(b), we would get production =  $\left(\frac{180}{12} \times 64\right) = 960$  units,

as per option (c), production =  $\left(\frac{180}{10} \times 53\right) = 954$  units

and as per option (d), production =  $\left(\frac{180}{9} \times 71\right) = 1,420$

units. Since option (c) gives the least production, it is the least efficient way.

181. a Total requirement of cloth = Total number of shirts  $\times$  Cloth required per shirt =  $(20 + 30 + 30 + 10 + 10) \times 1000 \times 1.5 = 1,50,000$  m.

182. b Total low quality cloth consumed =  $1.5$  (30% of 30000 + 30% of 30000 + 40% of 10000 + 90% of 10000) = 46,500 m.

183. c Total quantity of high quality cloth consumed by A-type shirts =  $(80\% \text{ of } 20000) \times 1.5 = 24,000$  m.

184. d We only know the relationship between the type of shirt and cloth used and type of shirt and dye used. We cannot find any relationship between type of cloth and dye used.

185. b Amount of low quality dye used for C-type shirts =  $(40\% \text{ of } 30000) = 12,000$  units. Amount of low quality dye used for D-type shirts =  $(60\% \text{ of } 10000) = 6,000$  units.

Hence, required ratio =  $\left(\frac{12000}{6000}\right) = 2 : 1$ .

