

CAT 1991

SECTION-I

DIRECTIONS for questions 1-11: From the statements in questions choose the one that expresses the idea most correctly.

1.
 1. The best part of the programme is the dances.
 2. The best part of the programme are the dances.
 3. The best part of the programme are the dance.
 4. The best parts of the programme is the dances.
2.
 1. The professor, as well as the students, was pleased with their results.
 2. The professor, as well as the students, were pleased with their results.
 3. The professor as well as the students were pleased with their results.
 4. The professor as well as the students were pleased with their results.
3.
 1. He was unwilling to testify, he was afraid of the defendant.
 2. Because he was afraid of the defendant, he was unwilling to testify.
 3. He was unwilling to testify: he was afraid of the defendant.
 4. Because he was afraid of the defendant he was unwilling to testify.
4.
 1. When you have good health, one should feel fortunate.
 2. When you have good health, you should feel fortunate.
 3. When one have good health, you should feel fortunate.
 4. When one has good health, he should feel fortunate.
5.
 1. Either you or he have to be here.
 2. Either you or he has to be here.
 3. Neither you nor he have to be here.
 4. Neither you nor they has to be here.
6.
 1. Children begin by loving their parents; as they grow older they judge them; sometimes they forgive them.
 2. Children begin by loving their parents, as they grow older they judge them; sometimes they forgive them.
 3. Children begin by loving their parents; as they grow older they judge them, sometimes they forgive them.
 4. Children begin by loving their parents, as they grow older they judge them; sometimes they forgive them.
7.
 1. Gopal and Ramesh have not finished his work.
 2. Gopal and Ramesh has not finished his work.
 3. Neither Gopal nor Ramesh have finished their work.
 4. Neither Gopal nor Ramesh has finished his work.
8.
 1. The fact that Raghu was a good student he had many offers for good jobs.
 2. The fact that Raghu was a good student resulted in his having many offers for good jobs.
 3. The fact Raghu was a good student resulted in him having offers for good jobs.
 4. The fact that Raghu was a good student resulted in him having many offers for good jobs.
9.
 1. The people of this company, have always been aware, of the needs for products of better quality and lower price.
 2. The people of this company, have always been aware of the need for products of better quality and lower price.
 3. The people of this company have always been aware of the need for products of better quality and lower price.
 4. The people of this company, have always been aware of the need for products of better quality, and lower price.

10. 1. The Dean finally agreed to see me. To talk about my financial problems.
2. The Dean finally agreed to see me, to talk about my financial problems.
3. The Dean, finally agreed to see me to talk about my financial problems.
4. The Dean finally agreed to see me to talk about my financial problems.
11. 1. We invited only the people who he said were his friends.
2. We invited only the people whom he said were his friends.
3. We invited only the people whom he said was his friends.
4. We invited only the person whom he said were his friends.

DIRECTIONS for questions 12-22: Each sentence below has been broken up into four parts sequentially (a, b, c, d). Choose that part which contains a mistake.

12. 1. A feasibility survey has now.
2. been completed in India to establish
3. a network of felicitate contacts
4. between small and medium enterprises.
13. 1. Privatization generally represents
2. an ideological response
3. to the perceived problem
4. in the public sector.
14. 1. The Indian government's choice
2. of the EEC as a partner
3. stem from the fact
4. that the community is the most important market for India.
15. 1. A person who earns a
2. few thousand rupees
3. and decides to save
4. many of it must be a miser.
16. 1. Had you been in my
2. position, you were definitely
3. shown your displeasure
4. at the turn of events.
17. 1. I definitely disagree
2. with the position that
3. requires that money
4. is a key motivator.
18. 1. This has slowed the progress
2. of reforms in many countries
3. because the choice of either of the extreme
4. positions inevitably invite criticism.
19. 1. Gavaskar was a great batsman who
2. aving played more than 100
3. test matches, he then decided
4. to call it a day.

20. 1. When we sold of all our
2. furniture, crockery and
3. other household goods,
4. the room looked bare.
21. 1. In the history of mankind
2. it has always been
3. minority which have been
4. able to change the world.
22. 1. Management education is
2. becoming highly sought after
3. by aspiring ambitious students
4. because of high demand in the job market.

DIRECTIONS for questions 23-29: The questions below consist of a group of sentences followed by a suggested sequential arrangement. Select the best sequence.

23. A. And that the pursuit of money by whatever design within the law is always benign.
B. And it holds broadly that the greater the amount of money, the greater the intelligence.
C. This is the institutional truth of Wall Street, this you will be required to believe.
D. The institutional truth of the financial world holds that association with money implies intelligence.
1. ACBD 2. CDBA 3. DBAC 4. DCAB
24. A. Then think of by how much our advertising could increase the sales level.
B. Advertising effectiveness can be best grasped intuitively on a per capita basis.
C. Overall effectiveness is easily calculated by considering the number of buyers and the cost of advertising.
D. Think of how much of our brand the average individual is buying now.
1. DCAB 2. DACB 3. BCDA 4. ABCD
25. A. The age of pragmatism is here, whether we like it or not.
B. The staple rhetoric that was for so long dished out also belongs to the bipolar world of yesterday.
C. The old equations, based on the cold war and on non-alignment no longer holds good.
D. But contrary to much of what is being said and written, it is a multipolar rather than unipolar world that appears to be emerging out of recent events.
1. ABCD 2. ACBD 3. ADBC 4. ADCB
26. A. Past research has uncovered the fact that cognitive age is inversely related to life satisfaction among the elderly.
B. A person may feel young or old irrespective of chronological age.
C. That is, the 'younger' an elderly person feels, the more likely she or he is to be satisfied with life in general.
D. Cognitive age is a psychological construct that refers to one's subjective assessment of one's age.
1. BDAC 2. DBAC 3. DCAB 4. ABCD

27. A. It was a fascinating tempting green, like the hue of the great green grasshopper.
B. Her teeth were very white and her voice had a cruel and at the same time a coaxing sound.
C. While she was uncorking the bottle I noticed how green her eyeballs were.
D. I saw, too, how small her hands were, which showed that she did not use them much.
1. ACBD 2. BACD 3. CADB 4. BADC
28. A. By intelligence we mean a style of life, a way of behaving in various situations, and particularly in new, strange and perplexing situations.
B. When we talk about intelligence, we do not mean the ability to get a good score on a certain kind of test, or even the ability to do well at school.
C. The true test of intelligence is not how to do, but how we behave when we don't know what to do.
D. These are at best only indicators of something large, deeper and far more important.
1. BDAC 2. CDBA 3. ABCD 4. CABD
29. A. In formal speech, syllables are likely to be more deliberately sounded than in informal speech.
B. Yet dictionary editors have no choice but to deal with each word as an individual entity.
C. The pronunciation of words is influenced by the situation.
D. Further, the pronunciation of a word is affected by its position in the sentence and by the meaning it carries.
1. ACBD 2. ACDB 3. ABCD 4. CADB

DIRECTIONS for questions 30-35: Each of these questions contains a sentence followed by four choices. Select from among these choices the one which most logically completes the idea contained in the given sentence.

30. Particularly today, when so many difficult and complex problems face the human species, the development of broad
1. and powerful shoulders is necessary.
2. plans of action is not possible.
3. moral values is required.
4. and powerful thinking is desperately needed.
31. In the European Community countries there has been talk of an energy tax to raise funds
1. by burdening the rich who can afford higher taxes.
2. to penalise heavy users of energy.
3. by raising the price of energy-intensive implements.
4. to search for alternative sources of energy.
32. "Look before you leap" reflects an attitude expressed in such a saying as
1. 'Forewarned is forearmed.'
2. 'A stitch in time saves nine.'
3. 'No risk no gain.'
4. 'Fools rush where the angels fear to tread.'
33. This is the ancient kingdom of Sumeria and you are its venerated ruler. The fate of Sumeria's economy and of your royal subjects
1. is written in their horoscopes.
2. is as unknown as the name of your kingdom.
3. is entirely in your hands.
4. is allocated according to their needs.

34. Furthermore, to be radical means to be ready and willing to break with the predominant cultural, political and social beliefs and values in order to
1. investigate the essential realities that they conceal.
 2. investigate the root cause of malaise in a society.
 3. shape a new economic order.
 4. re-construct the system in terms of new realities.
35. Entrepreneurs are never satisfied with the status quo, they are intent on shaping the future, rather than being shaped by it. As one Chief Executive once said,
1. "The future is the sum total of actions in the present and past."
 2. "If you are not alert, before you realize it the future is on you."
 3. "I do not want our competitors making decisions for us."
 4. "It is a sound business policy to anticipate change than being swamped by it."

DIRECTIONS for questions 36-50: Each of these questions contains six statements followed by four sets of combinations of three. Choose the set in which the statements are logically related.

36. A. No attendants are qualified.
C. Some nurses are not qualified.
E. All attendants are qualified.
- B. Some nurses are qualified.
D. All nurses are attendants.
F. Some attendants are qualified.
1. ABF 2. CDF 3. BDF 4. BDE
37. A. Mary is John's wife.
C. Mary wears John's ring.
E. John loves Mary.
- B. Mary and John danced together.
D. Husband and wives danced the last waltz.
F. John danced last with Mary.
1. ADF 2. ABD 3. ACE 4. AEF
38. A. All roses are fragrant.
C. All roses are plants.
E. All roses need air.
- B. All roses are majestic.
D. All plants need air.
F. All plants need water.
1. ABC 2. BCD 3. CDE 4. CEF
39. A. Laxman is a man.
C. Some women are islands.
E. Meera is not an island.
- B. Meera is Laxman's wife.
D. No man is an island.
F. Laxman is not a island.
1. ADE 2. ABE 3. ADF 4. CDE
40. A. College students are intelligent.
C. Ram's sister is a college student.
E. All intelligent persons go to college.
- B. Intelligence is a collegian's attribute.
D. Ram is a college student.
F. Ram is an intelligent person.
1. ADF 2. BCD 3. ABF 4. ABD
41. A. Smoking causes cancer.
C. Smoking doesn't cause cancer sometimes.
E. Brand X causes cancer.
- B. All cigarettes are hazardous to health.
D. One brand of cigarettes is cham - cham.
F. Cham - cham is bad for health.
1. ABE 2. BDF 3. ABD 4. ABC

42. A. All good bridge players play good chess.
B. Many good chess players are not bridge players.
C. Goren is a good bridge player.
D. Goren plays chess well.
E. Spassky plays chess well.
F. Spassky plays bridge badly.
1. ABD 2. BEF 3. ACE 4. ACD
43. A. All snakes are reptiles.
C. All reptiles are cold blooded.
E. All reptiles lay eggs.
1. ADE 2. BDE 3. ABE 4. ACF
44. A. All leaves are green.
C. Chlorophyll is green.
E. All plants have chlorophyll.
1. BDE 2. BEF 3. BDF 4. AEF
45. A. Some men are bald.
C. Raman is a man.
E. Raman is intelligent.
1. ABF 2. BDE 3. BCD 4. BEF
46. A. No barbarian is gentleman.
B. Some gentlemen are barbarians.
C. Some gentlemen are rude.
D. No gentlemen are rude.
E. Some barbarians are not rude.
F. All barbarians are rude.
1. ABE 2. BCE 3. ADF 4. BDE
47. A. Metal is good material for desks.
B. Desks are made of metal.
C. This object is not a desk.
D. This object is a desk.
E. This object is not made of metal.
F. This is made of metal.
1. ADF 2. BCE 3. ABD 4. BDF
48. A. Mathew and Paul are brothers.
B. Siblings are known to quarrel often.
C. Mathew and Paul don't quarrel.
D. All those who quarrel are siblings.
E. Paul and Mathew quarrel often.
F. Mathew and Paul cannot be siblings.
1. BDE 2. ADF 3. CDE 4. ABE

49. A. Painting and music is art.
B. Art is symptom of culture.
C. Culture and art are complementary.
D. Music is a form of art.
E. Painting is a form of art.
F. Music shows culture.

1. BDF 2. AEF 3. ACE 4. CEF

50. A. Different hues are obtained from primary colours.
B. A rainbow consists of several hues.
C. Blue and red can give different hues.
D. Red is a primary color.
E. Blue can give different hues.
F. Red can give different hues.

1. ACE 2. AEF 3. ADF 4. CDF

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SECTION-II

DIRECTIONS for questions 51 to 60: Each of these items has a question followed by two statements. As the answer,

Mark (1), If the question can be answered with the help of statement I alone,

Mark (2), If the question can be answered with the help of statement II, alone,

Mark (3), If both, statement I and statement II are needed to answer the question, and

Mark (4), If the question cannot be answered even with the help of both the statements.

51. Is it more profitable for Company M to produce Q?

I. Product R sells at a price four times that of Q

II. One unit of Q requires 2 units of labour, while one unit of R requires 5 units of labour. There is a no other constraint on production.

52. A train started from Station A, developed engine trouble and reached Station B, 40 minutes late. What is the distance between Stations A and B?

I. The engine trouble developed after travelling 40 km from Station A and the speed reduced to $\frac{1}{4}$ th of the original speed.

II. The engine trouble developed after travelling 40 km from station A in two hours and the speed reduced to $\frac{1}{4}$ th of the original speed.

53. What is the value of prime number x?

I. $x^2 + x$ is a two digit number greater than 50

II. x^3 is a three digit number.

54. The average of three unequal quotations for a particular share is Rs.110. If all are quoted in integral values of rupee, does the highest quotation exceed Rs. 129?

I. The lowest quotation Rs. 100.

II. One of the quotations is Rs. 115.

55. How many people (from the group surveyed) read both Indian Express and Times of India?

I. Out of total of 200 readers, 100 read Indian Express, 120 read Times of India and 50 read Hindu.

II. Out of a total of 200 readers, 100 read Indian Express, 120 reads Times of India and 50 read neither.

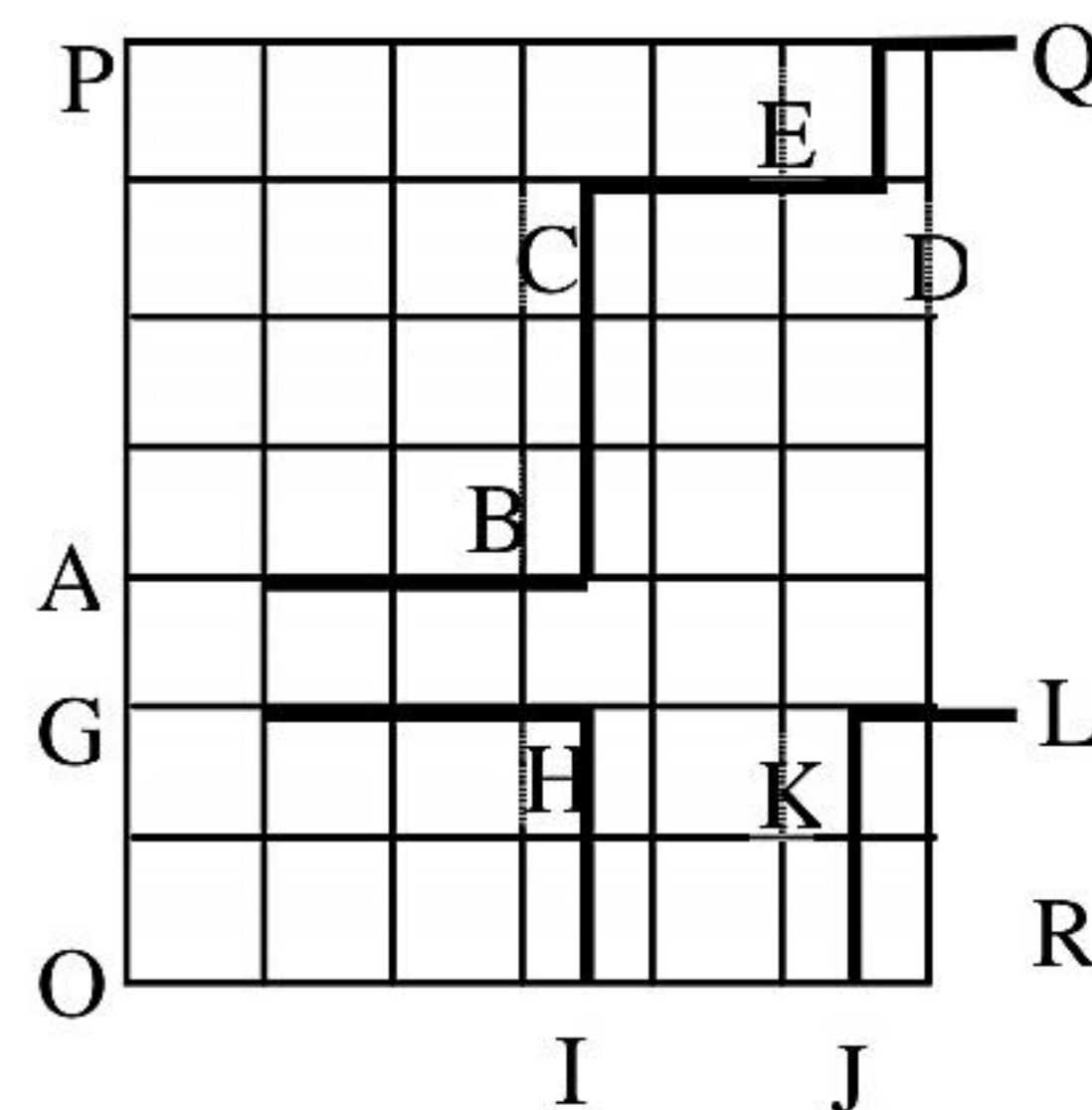
56. X says to Y, "I am 3 times as old as you were 3 years ago". How old is X?

I. Y's age 17 years from now is same as X's present age.

II. X's age nine years from now is 3 times Y's present age.

57. What is the area under the line GHI - JKL in the given quadrilateral OPQR, knowing that all the small spaces are squares of the same area?

- I. Length ABCDEQ is greater than or equal to 60.
II. Area OPQR is less than or equal to 1512.



58. What is the radius of the circle?

- I. Ratio of its area to circumference is > 7 .
II. Diameter of the circle is ≤ 32

59. What is the time difference between New York and London?

- I. The departure time at New York is exactly 9.00 a.m local time and the arrival time at London is at 10.00 a.m. local time.
II. The flight time is 5 hours.

60. Mr. Murthy takes the morning train to his office from station A to station B, and his colleague Mr. Rahman joins him on the way. There are three stations C, D and E on the way not necessarily in that sequence. What is the sequence of stations?

- I. Mr. Rahman boards the train at D.
II. Mr. Thomas, who travels between C & D has two segments of journey in common with Mr. Murthy but none with Mr. Rahman.

DIRECTIONS for questions 61 to 100: Choose the best answer choice from those provided

61. A function can sometimes reflect on itself, i.e. if $y = f(x)$, then $x = f(y)$. Both of them retain the same structure and form. Which of the following functions has this property?

1. $y = \frac{2x+3}{3x+4}$ 2. $y = \frac{2x+3}{3x-2}$ 3. $y = \frac{3x+4}{4x-5}$ 4. None of these

62. What is the value of k for which the following system of equations has no solution:
 $2x - 8y = 3$ and $kx + 4y = 10$

1. -2 2. 1 3. -1 4. 2

63. How many 3 - digit even numbers can you form such that if one of the digits is 5 then the following digit must be 7?

1. 5 2. 405 3. 365 4. 495

64. Alord got an order from a garment manufacturer for 480 Denim Shirts. He brought 12 sewing machines and appointed some expert tailors to do the job. However, many didn't report to duty. As a result, each of those who did, had to stitch 32 more shirts than originally planned by Alord, with equal distribution of work. How many tailors had been appointed earlier and how many had not reported for work?

1. 12, 4 2. 10, 3 3. 10, 4 4. None of these

65. Iqbal dealt some cards to Mushtaq and himself from a full pack of playing cards and laid the rest aside. Iqbal then said to Mushtaq. "If you give me a certain number of your cards, I will have four times as many cards as you will have. If I give you the same number of cards, I will have thrice as many cards as you will have ". Of the given choices, which could represent the number of cards with Iqbal?

1. 9 2. 31 3. 12 4. 35

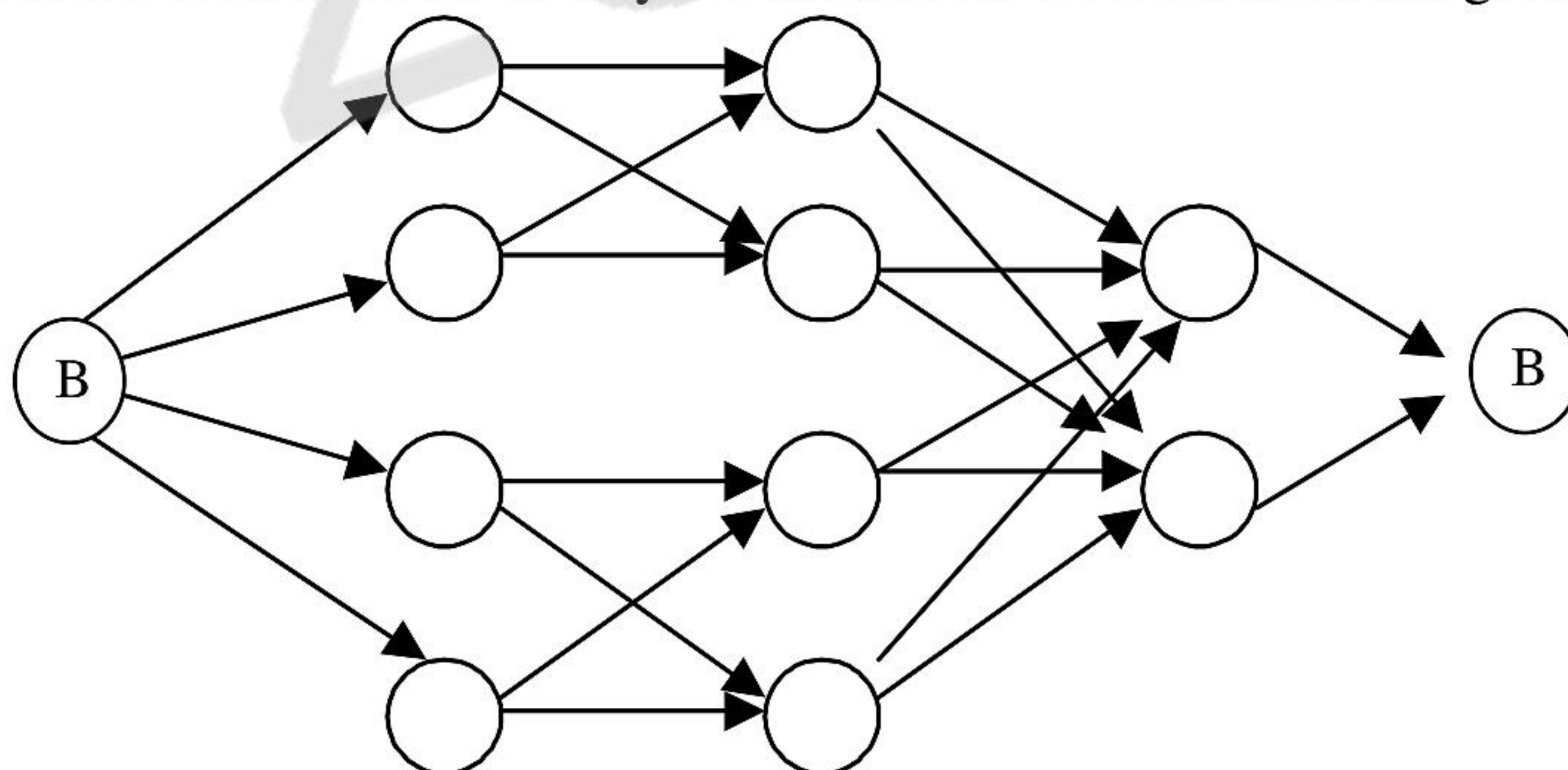
66. Fifty college teachers are surveyed as to their possession of colour TV, VCR and tape recorder. Of them, 22 own colour TV, 15 own VCR and 14 own tape recorders. Nine of these college teachers own exactly two items out of colour TV, VCR and tape recorder; and, one college teacher owns all three. How many of the 50 teachers own none of the three, colour TV, VCR or tape recorder?

1. 4 2. 9 3. 10 4. 11

67. Three times the first of three consecutive odd integers is 3 more than twice the third. What is the third integer?

1. 15 2. 9 3. 11 4. 5

68. What is the total number of ways to reach A to B in the network given?



1. 12 2. 16 3. 20 4. 22

69. Let the consecutive vertices of a square S be A, B, C & D . Let E, F & G be the mid-points of the sides AB, BC & AD respectively of the square. Then the ratio of the area of the quadrilateral $EFDG$ to that of the square S is nearest to

1. $\frac{1}{2}$ 2. $\frac{1}{3}$ 3. $\frac{1}{4}$ 4. $\frac{1}{8}$

70. $2^{73} - 2^{72} - 2^{71}$ is the same as

1. 2^{69} 2. 2^{70} 3. 2^{71} 4. 2^{72}

71. The number of integers n satisfying $-n+2 \geq 0$ and $2n \geq 4$ is
1. 0 2. 1 3. 2 4. 3
72. The sum of two integers is 10 and the sum of their reciprocals is $5/12$. Then the larger of these integers is
1. 2 2. 4 3. 6 4. 8
73. A circle is inscribed in a given square and another circle is circumscribed about the square. What is the ratio of the area of the inscribed circle to that of the circumscribed circle?
1. 2 : 3 2. 3 : 4 3. 1 : 4 4. 1 : 2
74. If $y = f(x)$ and $f(x) = (1-x) / (1+x)$, which of the following is true?
1. $f(2x) = f(x) - 1$ 2. $x = f(2y)-1$ 3. $f(1/x) = f(x)$ 4. $x = f(y)$

DIRECTIONS for questions 75 to 76: are based on the given data:

There were a hundred schools in a town. Of these, the number of schools having a play - ground was 30, and these schools had neither a library nor a laboratory. The number of schools having a laboratory alone was twice the number of those having a library only. The number of schools having a laboratory as well as a library was one fourth the number of those having a laboratory alone. The number of schools having either a laboratory or a library or both was 35.

75. How many schools had none of the three viz., laboratory, library or play - ground?
1. 20 2. 5 3. 30 4. 35
76. What was the ratio of schools having laboratory those having library?
1. 1 : 2 2. 5 : 3 3. 2 : 1 4. 2 : 3
77. A player rolls a die and receives the same number of rupees as the number of dots on the face that turns up. What should the player pay for each roll if he wants to make a profit of one rupee per throw of the die in the long run?
1. Rs. 2.50 2. Rs. 2 3. Rs.3.50 4. Rs. 4
78. Three machines, A, B and C can be used to produce a product. Machine A will take 60 hours to produce a million units. Machine B is twice as fast as Machine A. Machine C will take the same amount of time to produce a million units as A and B running together. How much time will be required to produce a million units if all the three machines are used simultaneously?
1. 12 hours 2. 10 hours 3. 8 hours 4. 6 hour
79. Let $Y = \text{minimum of } \{(x+2), (3-x)\}$. What is the maximum value of Y for $0 \leq x \leq 1$?
1. 1.0 2. 1.5 3. 3.1 4. 2.5
80. There are 3 clubs A, B & C in a town with 40, 50 & 60 members respectively. While 10 people are members of all 3 clubs, 70 are members in only one club. How many belong to exactly two clubs?
1. 20 2. 25 3. 50 4. 70

- 81.** A square piece of cardboard of sides ten inches is taken and four equal squares pieces are removed at the corners, such that the side of this square piece is also an integer value. The sides are then turned up to form an open box. Then the maximum volume such a box can have is
1. 72 cubic inches.
 2. 24.074 cubic inches
 3. $2000/27$ cubic inches
 4. 64 cubic inches.
- 82.** x , y and z are three positive integers such that $x > y > z$. Which of the following is closest to the product xyz ?
1. $(x-1)yz$
 2. $x(y-1)z$
 3. $xy(z-1)$
 4. $x(y+1)z$
- 83.** What is the greatest power of 5 which can divide $80!$ Exactly.
1. 16
 2. 20
 3. 19
 4. None of these
- 84.** A third standard teacher gave a simple multiplication exercise to the kids. But one kid reversed the digits of both the numbers and carried out the multiplication and found that the product was exactly the same as the one expected by the teacher. Only one of the following pairs of numbers will fit in the description of the exercise. Which one is that?
1. 14, 22
 2. 13, 62
 3. 19, 33
 4. 42, 28
- 85.** Find the minimum integral value of n such that the division $55n/124$ leaves no remainder.
1. 124
 2. 123
 3. 31
 4. 62
- 86.** Let k be a positive integer such that $k+4$ is divisible by 7. Then the smallest positive integer n , greater than 2, such that $k+2n$ is divisible by 7 equals
1. 9
 2. 7
 3. 5
 4. 3
- 87.** A calculator has two memory buttons, A and B. Value 1 is initially stored in both memory locations. The following sequence of steps is carried out five times:
 add 1 to B
 multiply A to B
 store the result in A
- What is the value stored in memory location A after this procedure?
1. 120
 2. 450
 3. 720
 4. 250
- 88.** A one rupee coin is placed on a table. The maximum number of similar one rupee coins which can be placed on the table, around it, with each one of them touching it and only two others is
1. 8
 2. 6
 3. 10
 4. 4
- 89.** Gopal went to a fruit market with certain amount of money. With this money he can buy either 50 oranges or 40 mangoes. He retains 10% of the money for taxi fare. If he buys 20 mangoes, then the number of oranges he can buy is
1. 25
 2. 20
 3. 18
 4. 6

90. Every day Neera's husband meets her at the city railway station at 6.00 p.m. and drives her to their residence. One day she left early from the office and reached the railway station at 5.00 p.m. She started walking towards her home, met her husband coming from their residence on the way and they reached home 10 minutes earlier than the usual time. For how long did she walk?
1. 1 hour 2. 50 minutes 3. $\frac{1}{2}$ hour 4. 55 minutes
91. In Sivakasi, each boy's quota of match sticks to fill into boxes is not more than 200 per session. If he reduces the number of sticks per box by 25, he can fill 3 more boxes with the total number of sticks assigned to him. Which of the following is the possible number of sticks assigned to each boy?
1. 200 2. 150 3. 125 4. 175
92. A sum of money compounded annually becomes Rs.625 in two years and Rs.675 in three years. The rate of interest per annum is
1. 7% 2. 8% 3. 6% 4. 5%
93. In a six-node network, two nodes are connected to all the other nodes. Of the remaining four, each is connected to four nodes. What is the total number of links in the network?
1. 13 2. 15 3. 7 4. 26
94. If x is a positive integer such that $2x + 12$ is perfectly divisible by x , then the number of possible values of x is
1. 2 2. 5 3. 6 4. 12
95. A man starting at a point walks one km east, then two km north, then one km east, then one km north, then one km east and then one km north to arrive at the destination. What is the shortest distance from the starting point to the destination?
1. $2\sqrt{2}$ km 2. 7 km 3. $3\sqrt{2}$ 4. 5 km
96. An outgoing batch of students wants to gift PA system worth Rs.4200 to their school. If the teachers offer to pay 50% more than the students, and an external benefactor gives three times teachers' contribution, how much should the teachers donate?
1. 600 2. 840 3. 900 4. 1200
97. A positive integer is said to be a prime number if it is not divisible by any positive integer other than itself and 1. Let p be a prime number greater than 5. Then $(p^2 - 1)$ is
1. never divisible by 6
 2. always divisible by 6, and may or may not be divisible by 12.
 3. always divisible by 12, and may or may not be divisible by 24.
 4. always divisible by 24.

- 98.** To decide whether a number of n digits is divisible by 7, we can define a process by which its magnitude is reduced as follows: ($i_1, i_2, i_3, \dots$, are the digits of the number, starting from the

most significant digit). $i_1 i_2 \dots i_n \Rightarrow i_1 \cdot 3^{n-1} + i_2 \cdot 3^{n-2} + \dots + i_n \cdot 3^0$.

e.g. $259 \Rightarrow 2 \cdot 3^2 + 5 \cdot 3^1 + 9 \cdot 3^0 = 18 + 15 + 9 = 42$

Ultimately the resulting number will be seven after repeating the above process a certain number of times. After how many such stages, does the number 203 reduce to 7?

1. 2 2. 3 3. 4 4. 1

- 99.** If $8 + 12 = 2$, $7 + 14 = 3$ then $10 + 18 = ?$

1. 10 2. 4 3. 6 4. 18

- 100.** What is the distance between the points A(3, 8) and B(-2,-7)?

1. $5\sqrt{2}$ 2. 5 3. $5\sqrt{10}$ 4. $10\sqrt{2}$

SECTION-III

DIRECTIONS for questions 101-155: Each passage in this part is followed by questions based on its contents. Read the passage carefully and choose the best answer for each question.

PASSAGE - I

Humans have probably always been surrounded by their kin - those to whom they have been related by blood or marriage. But the size, the composition, and the functions of their families and kinship groups have varied tremendously. People have lived not only in the “nuclear family”, made up of just the parents and their offspring, which is standard in the West and has been found almost everywhere, they have lived in extended families and in formal clans; they have been “avunculocal”; they have been “ultrolateral”, they have been conscious of themselves as heirs of lineages hundred of generations deep. However constructed, the traditional kinship group has usually provided those who live in it with security, identity, and indeed with their entire scheme of activities and beliefs. The nameless billions of hunter-gatherers who have lived and died over the past several million years have been embedded in kinship groups, and when people started to farm about ten thousand years ago, their universe remained centered on kinship. Now that there was a durable form of wealth which could be hoarded-grain-some families became more powerful than other; society became stratified, and genealogy became an important means of justifying and perpetuating status.

During the past few centuries, however, in part of the world-in Europe and the countries that have been developing along European lines-a process of fragmentation has been going on. The ties and the demands of kinship have been weakening, the family has been getting smaller and, some say, less influential, as the individual, with a new sense of autonomy and with new obligations to himself (or, especially in the last decade and a half, to herself), has come to the foreground. A radically different mental order-self-centered and traceable not to any single historical development as much as to the entire flow of Western history since at least the Renaissance has taken over. The political and economic effects of this rise in individual self-consciousness have been largely positive: civil rights are better protected and opportunities are greater in the richer, more dynamic countries of the West; but the psychological effects have been mixed, at best. Something has been lost: a warmth, a sanity, and a supportiveness that are apparent among people whose family networks are still intact. Such qualities can be found in most of the Third World and in rural pockets of the U.S., but in the main stream of post-industrial society the individual is increasingly left to himself, to find meaning, stability, and contentment however he can.

An indication of how far the disintegration of traditional kinship has advanced is that a surprising number of Americans are unable to name all four of their grandparents. Such people have usually grown up in step-families, which are dramatically on the rise. So is the single - parent family-the mother-child unit, which some anthropologists contend is the real nucleus of kinship, having already contracted to the relatively impoverished nuclear family, partly as an adaptation to industrialization kinship seems to be breaking down even further. With the divorce rate in America at about fifty percent and the remarriage rate at about seventy five, the traditional Judeo-Christian scheme of marriage to one person for life seems to be shading into a pattern of serial monogamy, into a sort of staggered polygamy, which some anthropologists, who believe that we aren't naturally monogamous to begin with, see as “a return of normality”. Still other anthropologists explain what is happening somewhat differently; we are

adopting delayed system of marriage, they say, with the length of the marriage chopped off at both ends. But many adults aren't getting married at all; they are putting "self-fulfillment" before marriage and children and are having nothing further to do with kinship after leaving their parents' home; their family has become their work associate or their circle of best friends. This is the most distressing trend of all; the decline in the capacity of long-term intimate bonding.

101. The traditional kinship group provides:

- | | |
|------------------------------|---------------------|
| 1. Security | 2. Identity |
| 3. Entire scheme of activity | 4. All of the above |

102. Which of the following is indicative of the extent of disintegration of kinship groups?

1. A large number of Americans are unable to name all four of their grandparents.
2. Growing number of single-parent families.
3. Increase in the average age at which males get married.
4. Both (1) and (2).

103. Which of the following statements is not true?

1. When people started to farm ten thousand years ago, kinship became less important.
2. Some families became more powerful than others after farming was initiated.
3. Genealogy became an important means of perpetuating status after the advent of farming.
4. Stratification of society was a result of hunter - gatherers taking up farming.

104. According to the author, what has been sacrificed with the rise in individual self-consciousness?

- | | | | |
|-----------|-------------------|-----------|---------------------|
| 1. Sanity | 2. Supportiveness | 3. Warmth | 4. All of the above |
|-----------|-------------------|-----------|---------------------|

105. The theme of the passage is which of the following?

1. The impact of the deterioration of kinship of groups on third world countries.
2. The correlation between the decline of traditional kinship groups and stratification of society.
3. The changes that have occurred to kinship group pattern and the effect of those changes on the individuals.
4. The political and economic repercussions of the decline of the nuclear family.

106. What does the author mean by serial monogamy?

1. Judeo-Christian scheme of marriage.
2. Marriage to one person for life.
3. A sequence of marriages and divorces.
4. Delayed marriage.

107. Which of the following statements cannot be inferred from the above passage?

1. Smaller families are more autonomous and influential.
2. The rise of the individuals can largely be viewed as a western phenomenon.
3. A different mental order is in evidence and can be traced to the renaissance period.
4. Mainstream post-industrial society would benefit from a resurgence of kinship groups.

108. The word "genealogy" refers to:

- | | | | |
|-------------------|-------------------|---------------------|-------------------|
| 1. family history | 2. kinship groups | 3. family authority | 4. nuclear family |
|-------------------|-------------------|---------------------|-------------------|

109. According to the passage, the most distressing trend is:

1. Many adults are putting “self fulfillment” before marriage and children and aren’t getting married at all.
2. The American divorce rate of 50 percent and remarriage rate of 75 percent.
3. The contraction of the nuclear family to the mother - child unit.
4. The inability to develop lasting personal relationship.

110. According to the passage, which statement is not true of kinship group fragmentation?

1. It is apparent that in Europe and countries developing along European lines a process of fragmentation has been taking place during the past few centuries.
2. A self-centered mental order has replaced the earlier kin-centered mental order and it can be traced to a specific historical development.
3. The political and economic benefits of the rise of the individuals have not been largely positive.
4. Psychological effects of the rise of the individuals have been both positive and negative.

PASSAGE – II

In 1787, the twenty-eighth year of the reign of King George III, the British Government sent a fleet to colonize Australia. Never had a colony been founded so far from its parent state, or in such ignorance of the land it occupied. There had been no reconnaissance. In 1770 Captain James Cook had made landfall on the unexplored east coast of this utterly enigmatic continent, stopped for a short while at a place named Botany Bay and gone north again. Since then, no ship had called - not a word, not an observation, for 17 years, each one of which was exactly like the thousands that had preceded it, locked in its historical immensity of blue heat, blush, sandstone and the measured booming of glassy pacific rollers.

Now, this coast was to witness a new colonial experiment, never tried before, not repeated since. An unexplored continent would become a jail. The space around it, the very air and sea, the whole transparent labyrinth of the South pacific, would become a wall 14,000 miles thick.

The late 18th century abounded in schemes of social goodness thrown off by its burgeoning sense of revolution. But here, the process was to be reversed: not utopia, but Dystopia; not Rousseau’s natural man moving in moral grace amid free social contract, but man coerced, deracinated, in chains. Other parts of the Pacific, especially Tahiti, might seem to conform Rousseau. But the intellectual patrons of Australia, in its first colonial years, were Hobbes and Sade.

In their most sanguine moments, the authorities hoped that it would eventually swallow a whole class-the “criminal class”, whose existence was one of the prime sociological beliefs of late Georgian and early Victorian England. Australia was settled to defend English property not from the frog-eating invader across the Channel but from the marauder within. English lawmakers wished not only to get rid of the “Criminal class” but if possible to forget about it. Australia was a Cloaca, invisible, its contents filthy and unnamable.

To most Englishmen this place seemed not just a mutant society but another planet-an exiled world, summed up in its popular name, “Botany Bay”. It was remote and anomalous to its white creators. It was strange but close, as the unconscious to the conscious mind. There was as yet no such thing as “Australian” history or culture. For its first forty years, everything that happened in the thief-colony was English. In the whole period of convict transportation, the Crown shipped more than 160,000 men, women and children (due to defects in the records, the true number will never be precisely known) in bondage to Australia. This was the largest forced exile of citizens at the behest of a European government in pre-modern history. Nothing in earlier penology compares with it. In Australia, England

drew the sketch for our own century's vaster and more terrible fresco of repression, the Gulag. No other country had such a birth, and its pangs may be said to have begun on the afternoon of January 26, 1788, when a fleet of eleven vessels carrying 1,030 people, including 548 male and 188 female convicts, under the command of captain Arthur Phillip in his flagship Sirius, entered Port Jackson or, as it would presently be called, Sydney Harbor.

- 111.** When the author refers to “the marauder within”, he is referring to:
1. the working class.
 2. the lower class.
 3. the criminal class.
 4. the Loch Ness monster.
- 112.** According to the passage, the intellectual mentors of Australia could be :
1. Hobbes and Cook
 2. Hobbes and Sade
 3. Phillip and Jackson
 4. Sade and Phillip
- 113.** Which of the following does not describe what the English regarded Australia to be :
1. a mutant society.
 2. an exiled world.
 3. an enigmatic continent.
 4. a new frontier.
- 114.** Elsewhere, according to the author, the late eighteenth century saw a plethora of:
1. moral grace
 2. social welfare programs
 3. free social contracts
 4. social repression
- 115.** The word “sanguine” means:
1. wise
 2. pessimistic
 3. shrewd
 4. confident
- 116.** The primary theme of the passage is
1. the colonization of Australia
 2. the first forty years of Australian history.
 3. the rise of the “criminal class” and its impact on the life of Georgian England.
 4. the establishment of Australia as a penal colony.
- 117.** One of the hallmarks of the late Georgian and early Victorian England was the belief in:
1. repression of the “criminal class”.
 2. convict transportation.
 3. colonization as a solution to social problems.
 4. the existence of a “criminal” class of people.
- 118.** What is penology?
1. The study of transportation of criminals.
 2. The study of punishment in its relation to crime.
 3. The study of pens.
 4. The study of ink flow of pens.
- 119.** According to the passage, which of the following statements is not true?

1. During the seventeen years after Captain James Cook made landfall at Botany Bay, the British made several observation trips to Australia.
2. Australia was settled by the British to protect their property from some of their own kin.
3. The author implies that while Rousseau was vindicated in the functioning of the society of Tahiti, the process in Australia presented a contrary picture.
4. Both (1) and (2).

120. Sydney Harbor was earlier known as:

1. Port Jackson
2. Botany Bay
3. Storm Bay
4. Norfolk Bay

PASSAGE - III

The fact is often obscured by the widespread confusion about the nature and role of emotions in man's life. One frequently hears the statement, "Man is not merely a rational being, he is also an emotional being", which implies some sort of dichotomy, as if, in effect, man possessed a dual nature, with one part in opposition to the other. In fact, however, the content of man's emotions is the product of his rational faculty; his emotions are a derivative and a consequence, which, like all of man's other psychological characteristics, cannot be understood without reference to the conceptual power of his consciousness.

As man's tool of survival, reason has two basic functions: cognition and evaluation. The process of cognition consists of discovering what things are, of identifying their nature, their attributes and properties. The process of evaluation consists of man discovering the relationship of things to himself, of identifying what is beneficial to him and what is harmful, what should be sought and what should be avoided.

"A 'value' is that which one acts to gain and/or keep." It is that which one regards as conducive to one's welfare. A value is the object of an action. Since man must act in order to live, and since reality confronts him with many possible goals, many alternative courses of action, he cannot escape the necessity of selecting values and making value judgements.

"Value" is a concept pertaining to a relation - the relation of some aspect of reality to man (or to some other living entity). If a man regards a thing (a person, an object, an event, mental state, etc.) as good for him, as beneficial in some way, he values it and, when possible and appropriate, seeks to acquire, retain and use or enjoy it; if a man regards a thing as bad for him, as inimical or harmful in some way, he disvalues it - and seeks to avoid or destroy it. If he regards a thing as of no significance to him, as neither beneficial nor harmful, he is indifferent to it - and takes no action in regard to it.

Although his life and well-being depend on a man selecting values that are in fact good for him, i.e., consonant with his nature and needs, conducive to his continued efficacious functioning, there are no internal or external forces compelling him to do so. Nature leaves him free in this matter. As a being of volitional consciousness, he is not biologically "programmed" to make the right value-choices automatically. He may select values that are incompatible with his needs and inimical to his well-being, values that lead him to suffering and destruction. But whether his values are life-serving or life-negating, it is a man's values that direct his actions. Values constitute man's basic motivational tie to reality.

In existential terms, man's basic alternative of "for me" or "against me", which gives rise to the issue of values, is the alternative of life or death. But this is an adult, conceptual identification. As a child, a human being first encounters the issue of values through the experience of physical sensations of pleasure and pain.

To a conscious organism, pleasure is experienced, axiomatically, as a value; pain, as disvalue. The biological reason for this is the fact that pleasure is a life-enhancing state and that pain is a signal of danger, of some disruption of the normal life process.

There is another basic alternative, in the realm of consciousness, through which a child encounters the issue of values, of the desirable and the undesirable. It pertains to his cognitive relations to reality. There are times when a child experiences a sense of cognitive efficacy in grasping reality, a sense of cognitive control, of mental clarity (within the range of awareness possible to his stage of development). There are times when he suffers from a sense of cognitive inefficacy, of cognitive helplessness, of mental chaos, the sense of being out of control and unable to assimilate the data entering his consciousness. To experience a state of efficacy is to experience it as a value; to experience a state of inefficacy is to experience it as a disvalue. The biological basis of this fact is the relationship of efficacy to survival.

The value of sense of efficacy as such, like the value of pleasure as such, is introspectively experienced by man as primary. One does not ask a man: "Why do you prefer pleasure to pain?" Nor does one ask him: "Why do you prefer a state of control to a state of helplessness?" It is through these two sets of experiences that man first acquires preferences, i.e. values.

A man may choose, as a consequence of his errors and/or evasions, to pursue pleasure by means of values that in fact can result only in pain; and he can pursue a sense of efficacy by means of values that can only render him impotent. But the value of pleasure and the disvalue of pain, as well as the value of efficacy and the disvalue of helplessness, remain the psychological base of the phenomenon of valuation.

121. The author subtly suggests that

1. there is a dual nature in man.
2. there is dichotomy between man as an emotional being and man as a rational being.
3. there should be no dichotomy between man as a rational being and man as an emotional being.
4. man's emotions cannot be understood.

122. The biological basis of choosing efficacy as value

1. cannot be understood easily.
2. is the relationship of efficacy to survival.
3. is the association of efficacy to pleasure.
4. is the biological relationship to cognition.

123. The author defines value as

1. something that results as good.
2. something that is chosen by man.
3. that which gives pleasure over pain.
4. that which increases efficacy.

124. The basic theme of the passage is that

1. man can choose his own values, irrespective of whether they are life sustaining or not.
2. man chooses values that are life sustaining.
3. values are given to man on account of his emotive process.
4. emotions and rationality are derived from each other.

125. According to this passage, through which of the following set of experiences, does man first acquire preferences?
- Good and bad
 - Pleasure and pain
 - Child and adult
 - Efficacy and inefficacy
1. A 2. A and B 3. B and D 4. C
126. Reason has the following basic functions:
- Wisdom and judgement.
 - Identifying what is beneficial to man.
 - Identifying the nature of pleasure and its value.
 - Cognition and evaluation.
127. The difference between a child's and adult's conceptual identification of issues relating to value is that
- the former experiences them through physical sensations.
 - the latter experiences them through physical sensations.
 - the latter's is more volitional in nature.
 - the adults' choice is existential in nature.
128. According to the author, while man chooses his own values, it does not mean that
- he is always successful.
 - it guarantees the basic reason for choosing them.
 - they are incompatible with his needs.
 - his environment has a say in it.
129. What man experiences as primary, according to the author,
- is questionable merit.
 - changes overtime.
 - is the value of pain and pleasure.
 - is not debatable.
130. While a man can choose his values
- he is biologically programmed to choose those of survival.
 - he is biologically programmed to choose those of destruction.
 - his volitional consciousness can lead him to the wrong choice.
 - his volitional consciousness leads him to the correct choice.

PASSAGE – IV

When you first arrive in a new culture, there is a period of confusion that comes from the new situation and from a lack of information. It leaves you quite dependent and in need of help in the form of information and above. The second stage begins as you start to interact with the new culture. It is called the stage of small victories. Each new encounter with the culture is fraught with peril. It is preceded by anxiety and information collection and rehearsal. Then the even occurs and you return home either triumphant or defeated. When successful, the feelings really are very much as though a major victory has been won. A heightened roller coaster effect is particularly characteristic of this stage. The support needed is emotional support, people who appreciate what you are going through and who can cheer you onward. It often happens that once some of the fundamentals of life are mastered, there is time to

explore and discover the new culture. This is the honeymoon stage of wonder and infatuation, in it there is a heightened appreciation of the new, the different, the aesthetic. Depending on the degree of cultural immersion and exploration it may continue for a considerable period of time. During this time there is no interest in attending to the less attractive downsides of the culture.

After a while, a self-correction takes place. No honeymoon can last forever. Irritation and anger begin to be experienced. Why in the world would anyone do it that way? Can't these people get their act together? Now the deficits seem glaringly apparent. For some people, they overwhelm the positive characteristics and become predominant.

Finally, if you are lucky enough to chart a course through these stages and not get stuck (and people do get stuck in these stages), there is a rebalance of reality. There is the capacity to understand and enjoy the new culture without ignoring those features that are less desirable.

This cultural entry and engagement process is both cognitive and affective. New information is acquired and remembered; old schema and perceptions are revised and qualified. An active learning process occurs. At the same time, anxiety arises in reaction to uncertainties and the challenges of the learning processes. It must be managed, as must the extremes of feeling that occur in this labile period. Thus, I am describing a learning process that results in valuing and affirming the best in the culture while at the same time seeing it in its completeness, seeing it whole. The capacity to affirm the whole- including those aspects that are less desirable yet are part of the whole - is critically important.

An appreciative process, "appreciative inquiry" is proposed as a way of helping members of different cultures recognize and value their differences and create a new culture where different values are understood and honoured. Executives -those who must lead this culture-change projects - need to understand that equal employment opportunity, affirmative action and sexual harassment policies, as viewed and implemented in organizations, are problem oriented change strategies. They focus on correcting what is wrong rather than creating a valued future. Executives themselves will need to inquire appreciatively into cultures that are not known to them before they are equipped to lead cultural change in their own organizations.

131. Which of the following statements is not true?

1. A particular effect of interaction with a new culture is an opportunity to enjoy a roller coaster ride.
2. Entering a new culture brings about a shift in processes of thinking and feeling.
3. An initial sense of wonder and awe makes a new entrant oblivious to the less pleasant side of the new culture.
4. Some people can forever remain angry and dissatisfied with the new culture.

132. Entering new cultures can predominantly help the entrant in

1. understanding the appreciative process.
2. appreciating stages in cultural development.
3. appreciating diversity.
4. understanding the problem solving process.

133. Opening a bank account in a new culture is an example of which stage?

1. Confusion
2. Small victories
3. Honeymoon
4. (2) and (3).

134. According to the passage, entering a culture that is very different from your own is overall

1. an infatuating process.
2. a learning process.
3. an exhausting process.
4. a depressing process.

135. Which of the following statements cannot be inferred from the above passage?

1. Acts that are meaningful in the familiar culture cannot be taken for granted in a new one.
2. Social interaction becomes less predictable in a new culture.
3. Seeing someone in completeness means accepting him with his strengths and weaknesses.
4. Modifications in organization culture must result in appreciative inquiry.

136. Which of the following is true?

1. Infatuation and heightened appreciation with a new culture can be maintained forever.
2. Entry to a new culture evokes an extremely negative feeling.
3. Affirmation of a new culture involves viewing it in its entirety with its strengths as well as weak points.
4. Organizational policies to deal with sexual harassment can bring about a change in the organizational culture.

PASSAGE -V

In 1787, Jeremy Bentham published a lengthy pamphlet entitled, "Defense of Usury: showing the Impolicy of the Present Legal Restraints on the Terms of pecuniary bargains he was concerned with loans between individuals or business enterprises. The legal restraints were limits on interest rates paid or received. Usury was and is the popular term for charging interest rates in excess of legal limits.

Bentham makes an overwhelmingly persuasive case for the proposition he sets forth at the beginning of the pamphlet, "viz. that no man of ripe years and sound mind, acting freely, and with his eyes open, ought to be hindered, with a view of his advantage from making such bargain, in the way of obtaining money, as he thinks fit; and nor (what is necessary consequence) nobody is hindered from supplying him upon any terms he thinks proper to accede to".

During the nearly two centuries since Bentham's pamphlet was published his arguments have been widely accepted by economists and as widely neglected by politicians. I know of no economist of any standing from that time to this who has favored a legal limit on the rate of interest that borrowers could pay or lenders receive though there must have been some. I know of no country that does not limit by law the rates of interest and I doubt that there are any. As Bentham wrote, "in great political questions wide indeed is the distance between conviction and practice."

Bentham's explanation of the "grounds of the prejudices against usury" is as valid today as when he wrote: "The business of a money lender-has no where, nor any time, been a popular one. Those who have the resolution to sacrifice the present to the future, are natural objects of envy to those who have sacrificed the future to the present. The children who don't have their cake to eat are the natural enemies of the children who have theirs. While the money is hoped for, and for a short time after it has been received, he who lends it is a friend and benefactor: by the time the money is spent, and the evil hour of reckoning has come, the benefactor is found to have changed his nature, and to have put on the image of the tyrant and the oppressor. It is an oppression for a man to reclaim his money: it is none to keep it from him."

Bentham's explanation of the "mischief of the anti-usurious laws" is also as valid today as when he wrote that these laws preclude "many people altogether, from getting the money they stand in need of, to answer their respective exigencies." For still others, they render "he terms so much the worse - While, out of loving kindness, or whatsoever other motive, the law precludes the man from borrowing, upon terms which it deems too disadvantageous, it does not preclude him from selling, upon any terms,

howsoever disadvantageous.” His conclusion : “The sole tendency of the law is to heap distress upon distress.”

Developments since Bentham’s days have increased the mischief done by usury legislation. Economic progress has provided the ordinary man with the means to save. The spread of banks, savings-and-loan associations, and the like has given the ordinary man the facilities for saving. For the first time in history, the working class may well be net lenders rather than net borrowers. They are also the ones who have fewest alternatives, who find it hardest to avoid legal regulations, and who are therefore hardest hit by them.

Under the spur of (Congressman) Wright Patman and his ilk, the Federal Reserve (1970) now limits the interest rate that commercial banks may pay to a maximum of 4 percent for small savers but to 7 percent for deposits of \$100,000 or more. And the deposits of small savers have been relatively stable or growing, while those of large depositors have been declining sharply because they have still better alternatives.

That is the way the self-labeled defenders of the “people” look after their interests - by keeping them from receiving the interests they are entitled to. Along with Bentham, “I would wish to learn why the legislator should be more anxious to limit the rate of interest one way, than the other? Why he should make it his business to prevent their getting more than a certain price for the use of it than to prevent their getting less? -- Let any one that can, find an answer to these questions: it is more than I can do.”

137. The author is making a case for

1. varying interest rates on loans.
2. withdrawing the legislation on usury.
3. reducing the interest rate difference on large deposits as against small.
4. ensuring that owners get interest rates, which are determined by free market operations.

138. The lament of the author is that the mischief that the law makes is that

1. it puts a ceiling on interest rates.
2. it overlooks economic theory.
3. it accepts the selling of a product at an exorbitant price while lending at high interest rates as illegal.
4. many needy people do not get money.

139. The author suggests that

1. usury is desirable.
2. there should be no legal restrictions on interest rates.
3. one should have one’s cake and eat it too.
4. he has no answer to the question of usury legislation.

140. How is usury defined?

1. Charging interest rates in excess of legal limits.
2. Charging exorbitant interest rates.
3. Allowing any amount to be borrowed.
4. None of the above.

141. Bentham was primarily concerned with

1. all loans in the economy.
2. loans by money lenders.

3. loans by individuals and businesses.
4. loans by banks and financial institutions.

142. To reclaim his own money, man becomes an oppressor because

1. he will reclaim it with high interest.
2. the borrower cannot repay.
3. borrowers do not like to part with money.
4. the critical need being over, the money lent is of less value to the borrower.

143. Who should be allowed to borrow and lend at any interest rate?

1. Individuals and businesses.
2. Money lenders.
3. Sane men acting freely and with full knowledge.
3. Small lenders and borrowers.

144. The author is

1. a politician.
2. a plutocrat.
3. a reformed post glasnost Marxist.
4. a staunch supporter of free market operations.

145. Mischief of usury legislation has increased as

1. loans have increased.
2. more people have become lenders.
3. small lenders are hardest hit by the legislation.
4. more people, among the working class, are net lenders.

PASSAGE – VI

Long before I disbanded formally, the Eclipse Group, in order to assist the company in applying for patents on the new machine, had gathered and had tried to figure out which engineers had contributed to Eagle's patentable features. Some who attended found those meetings painful. There was bickering. Harsh words were occasionally exchanged. Alsing, who during the project had set aside the shield of technical command, came in for some abuse - why should his name go on any patents, what had he done? Someone even asked that question regarding West. Ironically, perhaps, those meetings illustrated that the building of Eagle really did constitute a collective effort, for now that they had finished, they themselves were having a hard time agreeing on what each individual had contributed. But, clearly, the team was losing its glue. 'It has no function anymore. It's like an afterbirth,' said one old hat after the last of the patent meetings. Shortly after those meetings, Wallach, Alsing, Rasala and West received telegrams of congratulations from North-Carolina's leader. That was a classy gesture, all agreed. The next day Eagle finally went out the Company's door.

In New York City, in faded elegance of the Roosevelt Hotel, under gilded chandeliers, on April 29, 1980, Data General announced Eagle to the world. On days immediately following, in other parts of the country and in Canada and Europe, the machine was presented to salesmen and customers, and some members of the Eclipse Group went off on so-called road shows. About dozen of the team attended the big event in New York. There was a slick slide show. There were speeches. Then there was an impressive display in a dining hall-128 terminals hooked up to a single Eagle. The machine crashed during this part of the program, but no one except the company engineers noticed, the problem was

corrected so quickly and deftly. Eagle - this one consisted of the boards from Gollum -looked rather fine in skins of off - white and blue, but also unfamiliar.

A surprising large number of reporters attended, and the next day Eagle's debut was written up at some length in both the Wall Street Journal and the financial pages of the New York Times. But it wasn't called Eagle anymore. Marketing had rechristened it the Eclipse MV/8000. This also took some getting used to.

The people who described the machine to the press had never, of course, had anything to do with making it. Alsing - who was at the premiere and who had seen Marketing present machines before, ones he's worked on directly-said : After Marketing gets through, you go home and say to yourself, "Wow! Did I do that?" And in front of the press, people who had not even been around when Eagle was conceived were described as having had responsibility for it. All of that was to be expected - just normal flak and protocol.

As for the machine's actual inventors-the engineers, most of whom came, seemed to have a good time, although some did seem to me a little out of place, untutored in this sort of performance. Many of them had brought new suits for the occasion. After the show, there were cocktails and then lunch, they occupied a table all their own. It was a rather formal luncheon, and there was some confusion at the table as to whether it was proper to take first the plate of salad on the right or the one on the left.

West came, too, He did not sit with his old team, but he did talk easily and pleasantly with many of them during the day. I had a great talk with West!. Remarked one of the Microkids. He wore a brown suit, conservatively tailored. He looked as though he'd been wearing a suit all his life. He had come to this ceremony with some reluctance, and he was decidedly in the background. At the door to the show, where name tags were handed out, West had been asked what his title was. "Business Development" he'd said. At the cocktail party after the formal presentation, a reporter came up to him: "You seem to know something about this machine. What did you have to do with it?" West mumbled something, waving a hand, and changed the subject. Alsing overheard this exchange. It offended his sense of reality. He couldn't let the matter stand there. So he took the reporter aside and told him, "That guy was the leader of the whole thing". I had the feeling that West was just going through emotions and was not really present at all.

When it was over and we were strolling down a busy street towards Penn Station, his mood altered. Suddenly there was no longer a feeling of forbidden subjects, as there had been around him for many months. I found myself all of a sudden saying to him: "It's just a computer. It's really a small thing in the world, you know."

West smiled softly. 'I know it'. None of it, he said later, had come out the way he had imagined it would, but it was over and he was glad. The day after the formal announcement, Data General's famous sales force had been introduced to the computer in New York and elsewhere. At the end of the presentation for the sales personnel in New York, the regional sales manager got up and gave his troops a pep talk. 'What motivates people?' he asked. He answered his own question, saying, 'Ego and the money to buy things that they and their families want?' It was a different game now. Clearly, the machine no longer belonged to its makers.

146. Bickering during the meetings were indicative of the fact that

1. there was heavy competition among the engineers.
2. everyone wanted to take credit for Eagle.
3. Eagle constituted a collective effort.
4. it was hard to decide on the leader.

147. In this passage, the author seems to suggest that

1. hard work does lead to grand results.
2. some individuals stand out in scientific programmes.
3. those who get credit earn it.
4. once a new product is launched, the pains and pleasure that preceded it are lost.

148. The ‘afterbirth’, a simile expressed by an old hand was with reference to

- | | |
|------------------------|----------------------|
| 1. the Eclipse MV/8000 | 2. the Eagle |
| 3. Mr. Alsing | 4. the Eclipse Group |

149. It appears from Mr. West’s conversation with the author that

1. he was quite upset over the way things turned out.
2. he was glad to forget all about it.
3. he preferred to keep his thoughts to himself.
4. nothing motivated him.

150. A telegram by the North Carolina leader

1. implicitly identified those who deserved credit for Eagle.
2. was a worthy gesture before the launch.
3. was an implicit invitation to Wallach, Alsing, Rasala and West to be at the dinner.
4. indicated that Eagle would be launched the next day.

151. Apparently, one of the things that the younger computer professionals considered an honour was

1. to be invited to the party.
2. to talk to Mr. West.
3. to be part of the Eclipse group.
4. to sell Eagle.

152. The launching of Eagle in New York was a gala affair

1. but for the fact that the machine crashed during the programme.
2. in spite of the fact that the machine crashed during the programme.
3. because 128 terminals were hooked up to a single Eagle.
4. because a new machine was being launched.

153. According to the passage, even as the premiere of the Eagle launch seemed a grand success among those who appeared incongruous were

1. people from the Wall Street Journal and New York times.
2. the marketing people.
3. people who were never around when Eagle was conceived.
4. the engineers responsible for Eagle.

154. “Just normal flak and protocol” refers to

1. the grandeur of the launching ceremony.
2. giving credit for Eagle to even those who weren’t responsible for it.
3. the marketing people who rechristened the machine.
4. Mr. Alsing who was present at the premiere.

155. The author states that the machine no longer belonged to its makers

1. because the marketing people had changed its name.
2. because the engineers seemed to have lost interest in the machine.
3. because of the expressed attitude towards what motivated people.
4. because Mr. West refused to get involved.

SECTION-IV

DIRECTIONS for questions 156-160: The following table gives the national income and the population of a country for the years 1984 - 85 to 1989 - 90. For each of the following questions choose the best alternative:

Year	National Income (in Rs. Crore)	Population (in crore)
1984-85	229, 225	74.0
1985-86	261,174	75.0
1986-87	291,556	77.0
1987-88	329,934	78.5
1988-89	388,539	80.0
1989-90	433,500	81.5

156. The increase in the per capita income compared to the previous year is lowest for the year :

1. 1985-86
2. 1986-87
3. 1987-88
4. 1989-90

157. The per capita income is highest for the year :

1. 1984-85
2. 1985-86
3. 1987-88
4. 1989-90

158. The difference between the percentage increase in per capita income and the percentage increase in the population compared to the previous year is highest for the year:

1. 1985-86
2. 1986-87
3. 1987-88
4. 1988-89

159. The rate of increase in population was lowest in the year:

1. 1985-86
2. 1987-88
3. 1989-90
4. None of these

160. Increase in the per capita income compared to the previous year among the years given below was highest for the year:

1. 1985-86
2. 1986-87
3. 1987-88
4. 1989-90

DIRECTIONS for questions 161-165: Read the following information and answer the questions that follows:

Ghosh Babu deposited a certain sum of money in a bank in 1986. The bank calculated interest on the principal at 10 percent simple interest, and credited it to the account once a year. After the 1st year, Ghosh Babu withdrew the entire interest and 20% of the initial amount. After the 2nd year, he withdrew the interest and 50% of the remaining amount. After the 3rd year, he withdrew the interest and 50% of

the remaining amount. Finally after the 4th year, Ghosh Babu closed the account and collected the entire balance of Rs. 11,000.

161. The initial amount in rupees, deposited by Ghosh Babu was:

1. 25,000 2. 75,000 3. 50,000 4. None of these

162. The year, at the end of which, Ghosh Babu withdrew the smallest amount was:

1. First 2. Second 3. Third 4. Fourth

163. The year, at the end of which, Ghosh Babu collected the maximum interest was:

1. First 2. Second 3. Third 4. Fourth

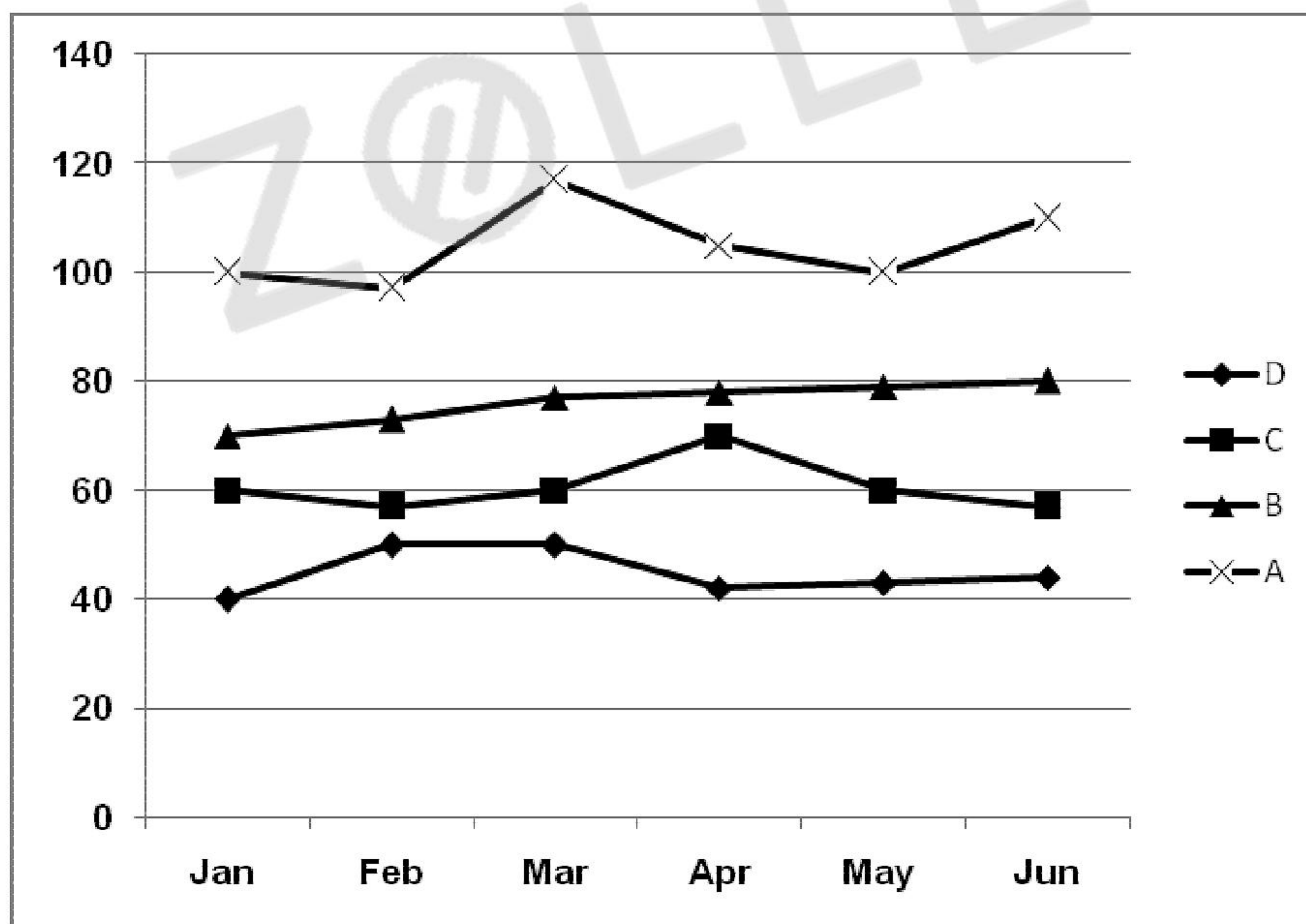
164. The year, at the end of which, Ghosh Babu withdrew the maximum amount was:

1. First 2. Second 3. Third 4. Fourth

165. The total interest, in rupees, collected by Ghosh Babu was:

1. 12,000 2. 20,000 3. 4,000 4. 11,000

DIRECTIONS for questions 166-170: The graph below shows the end of the month market values of 4 shares for the period from January to June. Answer the following questions based on this graph.



166. Which share showed the greatest percentage increase in market value in any month during the entire period?

1. A 2. B 3. C 4. D

167. In which month was the greatest absolute change in market value for any share recorded?

1. March 2. April 3. May 4. June

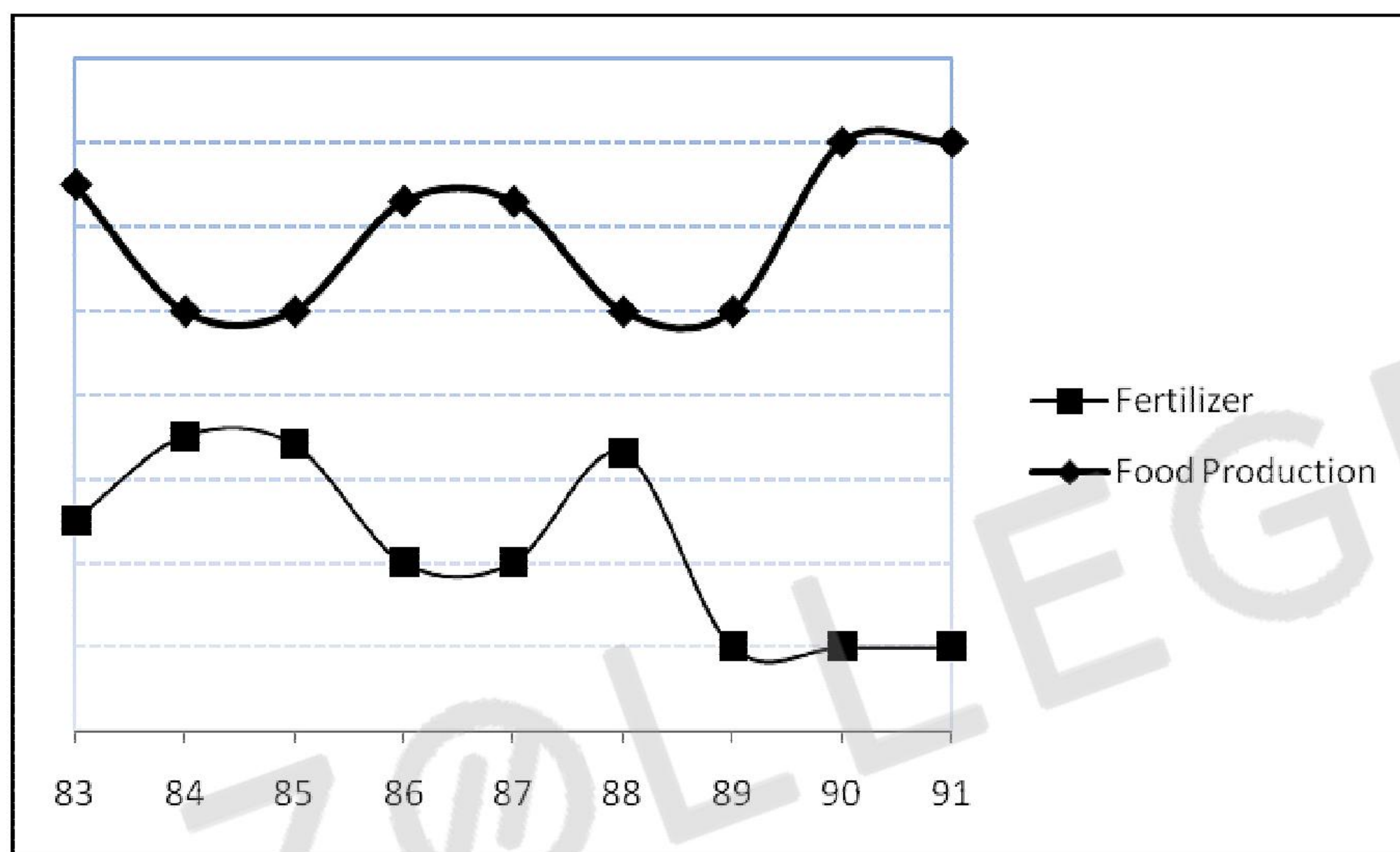
- 168.** In which month was the greatest percentage increase in market value for any share recorded?
1. February 2. March 3. April 4. May
- 169.** An individual wishes to sell 1 share of C and 1 share of D to buy 1 share of A at the end of a month. At which month-end would the individual's loss from this decision, due to share value changes, be the most?
1. February 2. March 3. April 4. June
- 170.** An individual decides to sell 1 share of C and 1 share of D to buy 1 share of A at the end of the month. What can be the individual's greatest gain from this decision, due to share value changes?
1. 5 2. 10 3. 15 4. none

DIRECTIONS for questions 171-175: Use the following information:

Prakash has to decide whether or not to test a batch of 1000 widgets before sending them to the buyer. In case he decides to test, he has two options: (a) Use test I ; (b) Use test II. Test I cost Rs. 2 per widget. However, the test is not perfect. It sends 20% of the bad ones to the buyer as good. Test II costs Rs. 3 per widget. It brings out all the bad ones. A defective widget identified before sending can be corrected at a cost of Rs. 25 per widget. All defective widgets are identified at the buyer's end and penalty of Rs. 50 per defective widget has to be paid by Prakash.

- 171.** Prakash should not test if the number of bad widgets in the lot is:
1. less than 100 2. more than 200
3. between 120 & 190 4. Cannot be found out.
- 172.** If there are 120 defective widgets in the lot, Prakash:
1. should either use Test I or not test. 2. should either use Test II or not test.
3. should use Test I or Test II. 4. should use Test I only.
- 173.** If the number of defective widgets in the lot is between 200 and 400, Prakash:
1. may use Test I or Test II 2. should use Test I only.
3. should use Test II only 4. cannot decide.
- 174.** If Prakash is told that the lot has 160 defective widgets, he should:
1. use Test I only 2. use Test II only
3. do no testing. 4. either use Test I or do not test.
- 175.** If there are 200 defective widgets in the lot, Prakash:
1. may use either Test I or Test II 2. should use Test I or not use any test
3. should use Test II or not use any test. 4. cannot decide.

DIRECTIONS for questions 176-180: Study the following graph and answer questions that follow. The x - axis denotes the years from 1983 to 1991.



- 176.** The sum of food and fertilizer production has shown a constant value for how many years?
1. None of the years
 2. 2
 3. 4
 4. 5
- 177.** If in 1988, the sum of the food and fertilizer production was 170 million tonnes, the value of food production must have been (approximately, in million tonnes) ...
1. 90
 2. 70
 3. 100
 4. Insufficient data
- 178.** From its apparent behaviour, the food production in year 1992 can be expected to ...
1. go up
 2. go down
 3. remain the same as previous year.
 4. nothing can be said.
- 179.** Going according to previous trends, one can say that the Fertilizer Production has shown an anomalous behaviour in which year?
1. 1985
 2. 1984
 3. 1991
 4. 1989
- 180.** A scholar observed that if the production of fertilizers in 1989 had been the same as that in 1988, then the total fertilizer production for all the given years would have been 450 million tonnes. Using this information, and knowing that the food production has been plotted on the

same scale, one may say that the food production in 1983 was (approximately, in million tonnes) ...

- | | |
|--------|-------------------------|
| 1. 80 | 2. 130 |
| 3. 105 | 4. Cannot be determined |

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