Directions (Qs. No. 1 to 3): *Each question has a sentence with TWO blanks followed by four parts of words are choices. From the choices, select the pair of words that can best complete the given sentence.*

1. The other servant has to _____ since Monu alone _____ all the food
   A. eat, cooked
   B. cook, wasted
   C. leave, prepared
   D. starve, consumed

2. Trying to _____ a team without a good and simple _____ system is like trying to drive a car without a steering wheel.
   A. run, guidance
   B. form, working
   C. organize, empowering
   D. lead, exploratory

3. The judge _____ him because he was found _____ on the basis of the evidence.
   A. pardoned, innocent
   B. suspended, involved
   C. punished, guilty
   D. acquitted, criminal

Directions (Qs. No. 4 to 6): *Sentences given in each question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter. Choose the most logical order of the sentences from among the four given choices to construct a coherent paragraph.*

4. P. Several factors like digestive disorders and psychological disturbances have been said to be causative factors.
   Q. It seems to be hereditary and a majority of sufferers are women.
   R. Certain foods like cheese or red wine have also been found to trigger off an attack.
   S. The exact cause of migraine is not known.
   T. On the other hand physical over-exertion, fatigue, irregularities in dietary habits, prolonged eye strain are common precipitating factors.
   A. S Q P R T
   B. S P R T Q
   C. Q P R S T
   D. R S P Q T

5. P. It has been so from time immemorial.
   Q. It is necessary to have a library.
   R. Library is a centre of learning.
   S. The selected books should enchant us.
   T. Our teachers had their libraries.
   A. R Q P S T   B. R P T Q S
   C. R S P Q T   D. T Q R S P

6. P. One day, a 17 year old shepherd boy came to visit his brothers and asked, why don't you stand up and fight the giant?
   Q. We all know the story of David and Goliath, in which there was a giant who was bullying and harassing the children in the village.
   R. but David said, No, he is not too big to hit; he is too big to miss.
   S. The brothers were terrified and they replied, don't you see he is too big to hit ?
   A. Q P S R   B. P R S Q
   C. Q P R S   D. Q S R P

Directions (Qs. No. 7 to 10): A word and five jumbled choices are given. One of the choices, when properly arranged, gives the meaning of the word. Identify the correct choice.

7. TENTATIVE
   A. UNLIRELEA
   B. CUENRTR
   C. PRSIVIONLAO
   D. FILAN

8. ENTANGLE
   A. FUESNCO
   B. PATR
   C. PLEXRPE
   D. ERGEMBSU

9. JUVENILE
   A. NEDIDH
   B. NOUGY
   C. NYNUF
   D. GHROU

10. COMBAT
   A. GHFIT
   B. ARQUREL
   C. NFCOLICT
   D. CTVIORY

Directions (Qs. No. 11 to 13): Each question has a sentence that is split into four parts. One of them has an error. Identify the erroneous part as your answer.

11. (A) As I was to reach / (B) early I left in aeroplane / (C) instead of / (D)going by train.

12. (A) It being rainy day, / (B) we decided not to go out / (C) but to stay at home / (D) and watch a movie.

13. (A) The recent study has / (B) indicated that there / (C) is perceptible change in / (D) the attitudes of the people.

Directions (Qs. No. 14 to 17): In each of the following questions, four jumbled words are given. Rearrange them and identify the word which is the 'odd one'.

14. A. REBCUMCU   B. MUPL
    C. GEANOR   D. RERYCH

15. A. REBMUN   B. SHLSA
    C. AMOMC   D. OTD

16. A. PEFORMARNCE
    B. CONCRET
    C. FLITHG
    D. PLYA

17. A. ERSSUOTR
    B. RTSIH
    C. KECATJ
    D. IEFCHREKNDHA

Directions (Qs. No. 18 to 21): Each of the following idioms / proverb is followed by some alternatives. Choose the one which best expresses its meaning.

18. To bring one's eggs to a bad market
   A. To face a humiliating situation
   B. To bring one's commodities to a market where there is no demand for them
   C. To show one's talents before audience which is incapable of appreciating them
   D. To fail in one's plans because one goes to the wrong people for help

19. To cross swords
   A. to fight   B. to defend
   C. to kill   D. to rob

20. A close shave
   A. A lucky escape
   B. A clean shave
   C. A well-guarded secret
   D. A narrow escape

21. A snake in the grass
   A. Secret or hidden enemy
   B. Unforeseen happening
   C. Unrecognisable danger
   D. Irreliable person

Directions (Qs. No. 22 to 25): In each of the following questions, a sentence has been given in Active (or Passive) voice. Out of the four alternatives suggested select the one which best expresses the same sentence in Passive (or Active) voice.

22. The Romans expected to conquer Carthage.
   A. Carthage was expected to be conquered by the Romans

B. The Romans were expected to conquer Carthage

C. It was expected by the Romans that they would conquer Carthage

D. The Romans expected to have conquered Carthage

23. I saw him conducting the rehearsal.

A. He was seen conducting the rehearsal

B. I saw the rehearsal to be conducted by him

C. He was seen by me to conduct the rehearsal

D. I saw the rehearsal being conducted by him

24. A stone struck me on the head.

A. I was struck by a stone on the head

B. My head was struck by a stone

C. I had been struck by a stone on the head

D. I was struck on the head by a stone

25. Do you imitate others ?

A. Are others imitated by you?

B. Are other being imitated by you?

C. Were others being imitated by you?

D. Have others been imitated by you?

Directions (Qs. No. 26 to 50): *Answer each of the questions independently.*

26. $(31)^{31} \times (31)^{-27} = ?$

A. $(961)^2$ B. 4

C. $(32)^2$ D. 29791

27. $6\dfrac{2}{3} + 3\dfrac{3}{5} + 3\dfrac{5}{6} = ?$

A. 15   B. $15\dfrac{11}{20}$

C. $14\dfrac{1}{10}$ D. 14

28. A tree increases by $\dfrac{1}{8}$ th of its height every year. What will be its height after 2 years, if it stands today 64 cm high?

A. 72 cm   B. 74 cm

C. 81cm   D. 85 cm

29. 36% of 450 − ? % of 340 = 66.8

A. 28   B. 32

C. 24   D. 18

30. A watch was sold for ₹ 144. If the gain percent and cost price are numerically equal, the cost price of the watch is

A. ₹ 72   B. ₹ 80

C. ₹ 90   D. ₹ 100

31. The mean proportional between 0.32 and 0.02 is

A. 0.8   B. 0.08

C. 0.008   D. 0.4

32. A began a business with ₹ 4,500 and was joined afterwards by B with ₹ 5,400. If the profits at the end of the year were divided in the ratio 2 : 1, after how many months did B join?

A. 4 months   B. 5 months

C. 6 months   D. 7 months

33. The place value of 9 in 0.06945

A. $\dfrac{9}{1}$ B. $\dfrac{9}{10}$

C. $\dfrac{9}{100}$ D. $\dfrac{9}{1000}$

34. A leak in the bottom of a tank can empty the full tank in 6 hours. An inlet pipe fills water at the rate of 4 litres per minute. When the tank is full, the inlet is opened and due to the leak, the tank is empty in 8 hours. The capacity of the tank is

A. 5260 litres

B. 5760 litres

C. 5846 litres

D. 6970 litres

35. A certain distance is covered by a vehicle at a certain speed. If half of this distance is covered by another vehicle in double the time, the ratio of the speeds of the two vehicles is

A. 1: 4   B. 1 : 2

C. 2 : 1   D. 4 : 1

36. Two trains of equal length are running on parallel lines in the same direction at the rate

of 92 km /hr and 72 km /hr respectively. The faster train passes the slower train in 54 seconds. The length of each train is
A. 180 m
B. 240 m
C. 150 m
D. 200 m

37. Two adjacent sides of a parallelogram are 50 cm and 60 cm and the corresponding diagonal is 70 cm. The area of the parallelogram is
A. $1200^{\sqrt{6}}$ cm^2

B. $900^{\sqrt{6}}$ cm^2

C. $600^{\sqrt{6}}$ cm^2

D. 2400 cm^2

38. The area of 4 walls of room is 216 m^2. The breadth and height of the room are 8 m and 6 m respectively. The length of the room is
A. 14 m
B. 12 m
C. 10 m
D. 9 m

39. The surface area of a cube is 1176 cm^2. The volume of the cube is
A. 2744 cm^3
B. 3528 cm^3
C. 4704 cm^3
D. 7056 cm^3

40. The present worth of ₹ 5,800 due 2 years hence at 8% per annum is
A. ₹ 6,728
B. ₹ 5,000
C. ₹ 4,872
D. ₹ 4,428

41. Which of the following is not a leap year?
A. 800
B. 1200
C. 2000
D. 2100

42. The angle between the minute hand and the hour hand of a clock when the time is 4:20 is
A. 0°
B. 5°
C. 10°
D. 20°

43. A can run 100 m in 35 seconds and B in 40 seconds. A beats B by
A. 8 m
B. 9 m
C. 10 m
D. 12.5 m

44. The H.C.F of $\frac{2}{3}, \frac{4}{9}, \frac{8}{21}$ is

A. $\frac{2}{3}$
B. $\frac{2}{63}$

C. $\frac{8}{63}$
D. $\frac{1}{3}$

45. $(1 + 0.1 + 0.01 + 0.001) = ?$
A. 1.001
B. 1.011
C. 1.003
D. 1.111

46. A student was asked to divide a number by 3. But, instead of dividing it, he multiplied it by 3 and got 89.1. What was the correct answer ?
A. 9.3
B. 9.8
C. 9.9
D. 19.8

47. What is 348 times 265 ?
A. 88740
B. 89750
C. 95700
D. 92220

48. Meena's age after 15 years will be 5 times her age 5 years back. What is Meena's present age?
A. 5 years
B. 10 years
C. 15 years
D. 50 years

49. $(1000)^9 \div (10)^{24} = ?$
A. 10
B. 100
C. 1000
D. 10000

50. How is V2 % expressed as a decimal fraction?
A. 0.0005
B. 0.005
C. 0.05
D. 0.5

Direction (Qs. No. 51 to 55): *Study the following table and answer the questions given below that:*
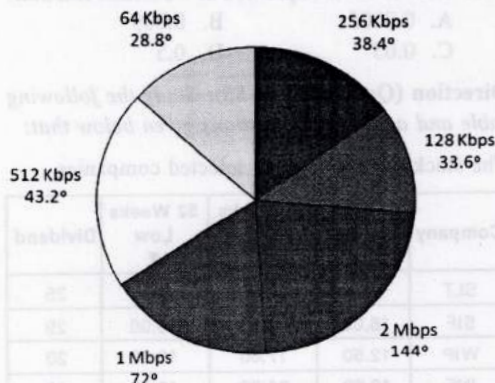
The stock market data for selected companies

Company	Current Market Price ₹	52 Weeks High ₹	52 Weeks Low ₹	Dividend
SLT	6.90	23.00	6.00	25
SIF	16.00	61.21	15.00	29
WIP	12.50	17.00	10.00	20
INF	18.00	31.29	13.00	20
HFC	10.20	12.80	6.75	10
MAF	22.50	36.00	17.00	25

51. The absolute difference in the 52-weeks high and low prices is the lowest for which of the following companies?

A. SLT   B. MAF
C. WIP   D. HFC

52. How much per cent lower from the 52 weeks high is the low price for INF ? (approximately)
A. 58%   B. 61%
C. 62%   D. 66%

53. Average market price for which one of the following companies is the highest ?
A. SLT   B. WIP
C. SIF   D. MAF

54. The ratio of the 52 weeks high price to the current price is the second highest for which one of the following companies?
A. SLT   B. WIP
C. SIF   D. MAF

55. What is the percentage gain for SIF from the 52 weeks low price to the current price?
A. 9.7%   B. 8.7%
C. 6.7%   D. 7.7%

Directions (Qs. No. 56 to 60): *These questions are based on the pie chart given below:*

Share of Revenue obtained from each type (by capacity) of connection sold by VSNL from sales of connections (for the year 2001).

64 Kbps 28.8°
256 Kbps 38.4°
128 Kbps 33.6°
512 Kbps 43.2°
2 Mbps 144°
1 Mbps 72°

Total revenue from sale of connections by VSNL in 2001 = ₹ 15 lakh
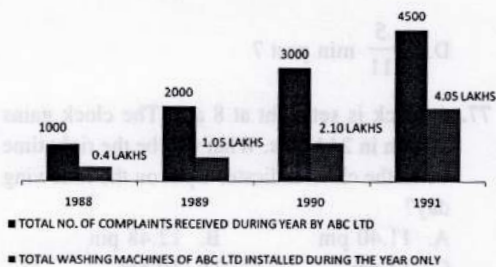
Total number of connections = 10000

56. If VSNL's revenue from sales of 1 Mbps - connections in 2000 was ₹ 2,20,000 then what is the percentage increase in the same from 2000 to 2001?
A. 36.36%
B. 33.33%
C. 28.56%
D. 23.21%

57. In 2001, GE capital decided to purchase fifty 1 Mbps connections and hundred 512 Kbps connections from VSNL, which gives a bulk discount of 12.5% on any total purchase exceeding ₹ 10,000 in value, then what is the amount that GE capital pays for these connections given that 1 Mbps connections from 25% and 512 Kbps connections from 20% of the total number of connections ?
A. ₹ 13,125
B. ₹ 12,260
C. ₹ 14,000
D. ₹ 13,200

58. VSNL's revenue from 2 Mbps connection is what percentage of the revenue from 512 Kbps connections in 2000, given that the revenue from 2 Mbps connections has increased by 25% and that of 512 Kbps by 20% from 2000 to 2001?
A. 220%   B. 320%
C. 420%   D. 347%

59. What is the approximate ratio of the revenue from 256 Kbps connections to that of a 128 Kbps connection in 2001?
A. 1.07   B. 1.38
C. 1.26   D. 1.14

60. If the revenue from 2 Mbps connections increases by ₹ 2 lakhs from 2001 to 2002, then what is the approximate angle subtended by 2 Mbps connections in the pie chart drawn for the year 2002? Given that the revenue from all other types of connections remains the same from 2001 to 2002.
A. 170°   B. 163°
C. 154°   D. 145°

Direction (Qs. No. 61 to 65): *These questions are based on the following diagram:*

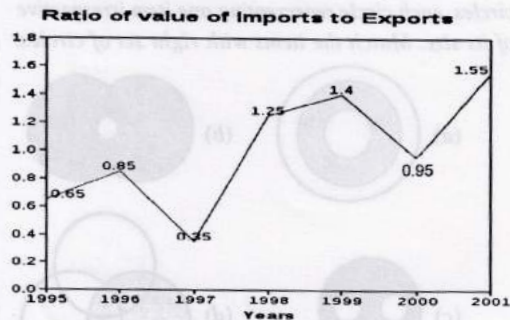Analysis of complaints received for Washing Machines of ABC Ltd.

■ TOTAL NO. OF COMPLAINTS RECEIVED DURING YEAR BY ABC LTD

■ TOTAL WASHING MACHINES OF ABC LTD INSTALLED DURING THE YEAR ONLY

61. In which year was the number of complaints per 1000 washing machines in service the maximum for ABC Ltd?

A. 1988 B. 1989
C. 1990 D. 1991

62. If 10% of the washing machines at the end of every year is scrapped from service, what is the approximate number of washing machines in service at the end of 1991 ?

A. 5.70 lacs B. 5.80 lacs
C. 6.15 lacs D. 6.37 lacs

63. In which two years was the percentage increase in the numbers of complaints received over the previous year the same?

A. 1989 and 1990
B. 1989 and 1991
C. 1990 and 1991
D. 1988 and 1989

64. If 10% of the complaints received in 1991 were not actual complaints but were because of the wrong operation of the washing machines by customers, then what is the approximate number of actual complaints per 1000 washing machines in 1991 ?

A. 21 B. 10
C. 23 D. 12

65. If it was found that "fuse blowing" formed 50% of the complaints in 1988 and the number of such complaints was increasing at 20% per year, then what percentage of complaints in 1991 was due to "fuse blowing" ?
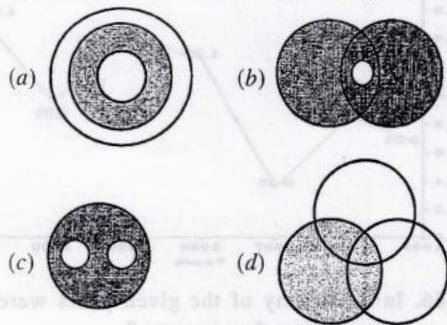
A. 19.2% B. 4.9%
C. 2.1% D. 6.1%

Directions (Qs. No. 66 to 70): *The following Line chart gives the ratio of the amounts of imports by a company to the amount of exports from that company over the period from 1995 to 2001. Answer the following questions based on following Line graph.*

66. In how many of the given years were the exports more than imports ?

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

67. The imports were minimum proportionate to the exports of the Company in the year

A. 1997 B. 1995
C. 1996 D. 2000

68. If the imports of a company in 1996 was ₹ 272 crores, the exports from the company in 1996 was

A. ₹ 120 Crores
B. ₹ 220 Crores
C. ₹ 320 Crores
D. ₹ 420 Crores

69. What was the percentage increase in imports from 1997 to 1998 ?

A. 70
B. 72
C. 74
D. Data Inadequate

70. If the imports in 1998 was ₹ 250 crores and the total exports in years 1998 and 1999 together was ₹ 500 crores, then the imports in 1999 was

A. 320 Crores
B. 420 Crores
C. 520 Crores
D. 620 Crores

Directions (Qs. No. 71 to 75): *Each question below has three items having certain relationship among them. The same relationship is expressed by sets of circles, each circle representing one item irrespective of its size. Match the items with right set of circles.*

(a)   (b)

(c)   (d)

71. Rivers, Canals, Perennial source of water
    A. (a)   B. (b)
    C. (c)   D. (d)

72. Rings, Ornaments, Diamond rings
    A. (a)   B. (b)
    C. (c)   D. (d)

73. Women, Married persons, Wives who work
    A. (a)   B. (c)
    C. (d)   D. (b)

74. Computer skilled, Graduates, Employed
    A. (a)   B. (d)
    C. (b)   D. (c)

75. Students, First divisioners, Third divisioners
    A. (b)   B. (d)
    C. (c)   D. (a)

76. At what time between 7 and 8 will the hands of a clock be in the same straight line, but not together?
    A. 5 min past 7
    B. $5\frac{2}{11}$ min past 7
    C. $5\frac{3}{11}$ min past 7
    D. $5\frac{5}{11}$ min past 7

77. A clock is set right at 8 am. The clock gains 10 min in 24 hours. What will be the right time when the clock indicates 1 pm on the following day?
    A. 11.40 pm   B. 12.48 pm
    C. 12 pm   D. 10 pm

78. Today is Thursday. The day after 59 days will be
    A. Sunday
    B. Monday
    C. Tuesday
    D. Wednesday

79. On 8th Feb. 1995 it was Wednesday, the day of the week on 8th Feb. 1994 was
    A. Wednesday
    B. Thursday
    C. Tuesday
    D. Sunday

Direction (Qs. No. 80 to 82): *Read the following information carefully and answer the questions given below:*

Four ladies A, B, C & D and four gentlemen E, F, G & H are sitting in a circle round a table facing each other.
    (i) No two ladies or two gentlemen are sitting side by side
    (ii) C, who is sitting between G and E, is facing D.
    (iii) F is between D and A is facing G.
    (iv) H is to the right of B.

80. Who is sitting to the left of A?
    A. E   B. F
    C. G   D. H

81. E is facing whom?
    A. F   B. B
    C. G   D. H

82. Who are immediate neighbours of B ?
   A. G and H
   B. E and F
   C. E and H
   D. F and H

83. Introducing a girl, Vipin said, "Her mother is the only daughter of my mother-inlaw." How is Vipin related to the girl?
   A. Uncle
   B. Father
   C. Brother
   D. Husband

84. Showing the lady in the park, Vineet said, "She is the daughter of my grandfather's only son." How is Vineet related to that lady?
   A. Brother
   B. Cousin
   C. Father
   D. Uncle

85. A man said to a lady, "Your mother's husband's sister is my aunt." How is the lady related to the man?
   A. Daughter
   B. Sister
   C. Granddaughter
   D. Mother

86. Introducing a man, a woman said, "His wife is the only daughter of my father." How is that man related to the woman?
   A. Husband
   B. Brother
   C. Father-in-law
   D. Maternal-uncle

Directions (Qs. No. 87 to 91): *In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumption and decide which of the assumption is implicit in the statement.*

   Give answer
   A. If only assumption I is implicit
   B. If only assumption II is implicit
   C. If either I or II is implicit
   D. If neither I nor II is implicit

87. Statement: It is desirable to put the child in the school at the age of 5 or so.
   Assumptions: I. At that age the child reaches appropriate level of development and ready to learn.
   II. The schools do not admit children after six years of age.

88. Statement: Even with the increase in the number of sugar factories in India, we still continue to import sugar.
   Assumptions: I. The consumption of sugar per capita has increased in India.
   II. Many of the factories are not in a position to produce sugar to their fullest capacity.

89. Statement: "You must learn to refer to dictionary if you want to become a good writer" – A advises B.
   Assumptions: I. Only writers refers to the dictionary.
   II. All writers, good or bad, refer to the dictionary.

90. Statement: A advises B, "If you want to study English, join institute Y".
   Assumptions: I. B listens to A's advice.
   II. Institute Y provides good coaching for English.

91. Statement: The leader of the main opposition party asserted that the call for chakka jam turned out to be a great success in the entire state.
   Assumptions: I. The people in future will support the main opposition party.

II. People probably are convinced about the reason behind the chakka jam strike call.

Directions (Qs. No. 92 to 95): *A contractor will build five houses in a certain town in a street that currently has no houses on it. The contractor will select from seven different models of houses T, U, V, W, X, Y and Z. The town's planning board has placed the following restrictions on the contractor:*

No model can be selected for more than one house.
Either model W must be selected or model Z, but both cannot be selected.

If model Y is selected, model V must also be selected.

If model U is selected, model W cannot be selected.

92. If model U is one of the models selected for the street, which of the following models must also be selected ?

A. T
B. W
C. X
D. Z

93. If T, U and X are three of the models selected for the street, which of the following must be the other two models selected?

A. V and W
B. V and Y
C. V and Z
D. W and Y

94. Which of the following is an acceptable combination of models that can be selected for the street?

A. T, U, V, X, Y
B. T, U, X, Y, Z
C. T, V, X, Y, Z
D. U, V, W, X, Y

95. If model Z is one model not selected for the street, the other model Not selected must be which of the following?

A. T
B. U
C. V
D. W

Directions (Qs. No. 96 to 100): *In each question below a statement is given followed by two conclusions numbered I and II. You have to take the statement to be true. Read both the conclusions and decide which of the two or both follow the given statement.*

A. If only conclusion I follows.
B. If only conclusion II follows.
C. If either I or II follows.
D. If neither I nor II follows.

96. Statement: The nation 'X' faced the increased international opposition due to its decision of performing eight nuclear explosions.

   Conclusions: I. The citizens of the nation have favoured the decision.
   II. Some powerful nations don't want that others may become powerful.

97. Statement: The chief minister emphasized the point that the Govt, will try its best for the development of the farmers and rural poor.

   Conclusions: I. The former Govt, had not tried seriously for the development of these people.
   II. This Govt, will not try seriously for the development of urban poor.

98. Statement: In India, emphasis should be given more on agriculture, engineering and technological fields rather than on basic and pure science.

   Conclusions: I. India has achieved sufficient development in the field of basic and pure science.
   II. In the past, the production sector of economy was neglected.

99. Statement: The majority of Indian labourers belong to unorganized sector and most of them earn very low.

   Conclusions: I. The labourers belonging to organized sector have better benefits and stability.

II. Some labourers belonging to unorganized sector have regular and certain income.

100. **Statement:** The multinational fast food chains have started their operation in India after facing many problems but Association of Farmers are ready for competition.

Conclusions: I. Association of Farmers are not supporting modernization.

II. Association of Farmers are not ready for competition with the multinational companies.

ANSWERS

1	2	3	4	5	6	7	8	9	10
D	B	C	A	C	A	C	B	B	C
11	12	13	14	15	16	17	18	19	20
A	A	C	A	A	C	A	D	A	D
21	22	23	24	25	26	27	28	29	30
C	B	D	D	A	A	C	C	A	B
31	32	33	34	35	36	37	38	39	40
B	D	D	B	D	C	A	C	A	A
41	42	43	44	45	46	47	48	49	50
D	D	D	A	D	C	D	B	C	B
51	52	53	54	55	56	57	58	59	60
D	A	C	A	C	A	A	B	D	A
61	62	63	64	65	66	67	68	69	70
A	D	C	B	A	D	A	C	D	B
71	72	73	74	75	76	77	78	79	80
C	A	D	B	C	D	B	A	C	B
81	82	83	84	85	86	87	88	89	90
D	A	B	A	B	A	A	D	D	B
91	92	93	94	95	96	97	98	99	100
B	D	C	C	B	B	D	D	B	

EXPLANATORY ANSWER

1. The correct answer is starve, consumed.
   - The sentence implies that Monu is eating all the food, leaving nothing for the other servant.
   - "Starve" best describes the consequence of not having any food to eat.

   - "Consumed" indicates that Monu has eaten all the available food.

   Therefore, "starve" and "consumed" are the most appropriate choices to complete the sentence in a logical and grammatically correct way.

2. The sentence is drawing an analogy between trying to manage a team without a good and simple system and trying to drive a car without a steering wheel. The words that best fit the blanks in this context are:

"Trying to **form** a team without a good and simple **working** system is like trying to drive a car without a steering wheel."

In this context:

- **Forming** a team implies the initial creation or establishment of a team.

- A **working** system suggests a system that is functional and effective.

Together, these words convey the idea that just as a team needs a well-established and effective system, driving a car requires a steering wheel for proper functioning.

3. The sentence suggests that the judge took action against the person mentioned because they were found guilty based on the evidence. Therefore, the correct pair of words to complete the sentence is:

"The judge **punished** him because he was found **guilty** on the basis of the evidence."

- **Punished** indicates that the judge took some form of disciplinary action against the person.

- **Guilty** implies that the person was proven to have committed an offense or wrongdoing based on the evidence presented.

Together, these words convey the idea that the judge, having found the person guilty, took punitive measures.

4. The first phrase of the sequence is the one that introduces a new topic. It should not be a continuation or extension of a topic.

S is first in the sequence: It is the only statement that introduces a topic. It starts a discussion about the causes of migraine.

S is followed by Q: Q is the only statement that can follow S. Other statements are linked to each other as they discuss the same topic. Since S says that causes of migraine are unknown, Q takes a guess that it might be caused by heredity.

Q is followed by P: P is an extension of the topic. It introduces certain factors that might cause migraines. Thus, P can be considered a continuation of Q.

P is followed by R: R is the direct continuation of P. It discusses more possible factors that may cause migraines. The words 'have also been known' tell us that R is adding factors to the list and thus has to follow P.

R is followed by T: T takes the discussion from possible factors to known factors. 'On the other hand' indicates that the other aspect of the discussion has already been discussed. Thus, T cannot come before other phrases.

Thus, the correct sequence is S Q P R T. Hence, A is the correct option.

5. 1. R. Library is a centre of learning.

This sentence introduces the main idea that a library serves as a center of learning.

2. S. The selected books should enchant us.

Following the introduction of the library as a center of learning, this sentence emphasizes the importance of the content within the library - that the chosen books should captivate or enchant the readers.

3. P. It has been so from time immemorial.

This sentence adds a historical perspective, stating that the concept of a library being a center of learning has been in existence for a very long time.

4. Q. It is necessary to have a library.

Now, the necessity of having a library is highlighted, connecting back to the initial statement that a library is a center of learning.

5. T. Our teachers had their libraries.

This sentence provides a personal touch, suggesting that even the teachers recognize the importance of having their own libraries.

So, the complete sequence would be: "Library is a centre of learning. The selected books should enchant us. It has been so from time immemorial. It is necessary to have a library. Our teachers had their libraries."

6. The most logical order for the sentences to form a coherent paragraph is: Q P S R

So, the correct sequence would be: "We all know the story of David and Goliath, in which there was a giant who was bullying and harassing the children in the village. One day, a 17-year-old shepherd boy came to visit his brothers and asked, why don't you stand up and fight the giant? The brothers were terrified and they replied, don't you see he is too big to hit? but David said, No, he is not too big to hit; he is too big to miss."

7. Out of the listed choices, the correct one that gives the meaning of "tentative" when properly arranged is: PRSIVIONLAO. Rearranging the letters in this choice gives "**PROVISIONAL**," which is a synonym for "tentative." It means uncertain, not fully developed, or subject to change.

8. The given word is "ENTANGLE," and the jumbled choice is: PATR. When rearranged, it forms the word "TRAP."

9. Rearranging the letters in this choice gives "YOUNG," which is a synonym for "juvenile." The other options do not offer words related to the meaning of "juvenile":

A. NEDIDH - rearranges to "HIDDEN," which is not associated with "juvenile."

C. NYNUF - rearranges to "FUNNY," which has a different meaning than "juvenile."

D. GHROU - rearranges to "HOUGH," which does not share any significant meaning with "juvenile."

Therefore, the correct answer is NOUGY.

10. The given word is "COMBAT," and the jumbled choice is: NFCOLICT. When rearranged, it forms the word "CONFLICT." Which is similar to combat.

11. The error in the sentence is in part **(A) As I was to reach**.

- "As I was to reach" implies a future event, but the rest of the sentence describes a past action (leaving in an aeroplane). This creates a grammatical inconsistency.

- The sentence would be grammatically correct if it were either:
  - "As I was reaching" (present continuous tense, indicating an ongoing action in the past)
  - "When I was to reach" (past conditional tense, emphasizing the intended outcome)

12. The error in the sentence is in part **(A) It being rainy day.**

- "It being rainy day" is grammatically incorrect. The introductory phrase needs a subject, not a gerund phrase ("raining day").

There are two ways to correct the sentence:

- "Since it was a rainy day," (using a subordinate clause with a subject)

- "It was a rainy day, so" (using a coordinating conjunction and parallel sentence structure)

13. The error is in Part (C). To correct it, we need to add the article "a" before "perceptible." So, the corrected sentence is: "The recent study has indicated that there is a perceptible change in the attitudes of the people."

14. Rearranging the letters:

- REBCUMCU - becomes CUCUMBER
- MUPL - becomes PLUM
- GEANOR - becomes ORANGE
- RERYCH - becomes CHERRY

Analyzing the words: PLUM, ORANGE, and CHERRY are all fruits.Therefore, the odd one out is **CUCUMBER**.

15. Let's rearrange the jumbled words:

A. REBMUN → NUMBER

B. SHLSA → SLASH

C. AMOMC → COMMA

D. OTD → DOT

16. Let's rearrange the jumbled words:

A. PEFORMARNCE → PERFORMANCE

B. CONCRET → CONCERT

C. FLITHG → FLIGHT

D. PLYA → PLAY

17. Let's rearrange the jumbled words:

A. ERSSUOTR → RESORT

B. RTSIH → SHIRT

C. KECATJ → JACKET

D. IEFCHREKNDHA → HANDKERCHIEF

18. The best option to express the meaning of the idiom "To bring one's eggs to a bad market" is: To fail in one's plans because one goes to the wrong people for help.

Here's why:

- The idiom implies misdirected effort or action that leads to failure.

- Bringing eggs to a bad market suggests offering something in a place where it will not be valued or accepted.

- This aligns with the idea of going to the wrong people for help - your efforts will not be appreciated or utilized effectively, leading to disappointment.

19. Out of the options, the one that best expresses the meaning of "to cross swords" is: to fight.

Here's why:

- "To cross swords" is a metaphorical expression that signifies engaging in a conflict, usually a physical one.

- "To fight" directly translates to the act of engaging in physical combat.

20. Out of the options, the one that best expresses the meaning of "a close shave" is: A narrow escape.

Here's why:

- "A close shave" metaphorically implies narrowly avoiding danger or disaster. It's like a razor blade coming very close to your skin but not causing any harm.

- "A narrow escape" literally describes barely escaping a dangerous situation. This perfectly aligns with the metaphorical concept of "a close shave."

21. Unrecognisable danger: This option seems to be the correct one as the metaphoric meaning of the given phrase matches to that of this option. It does mean someone who is unrecognisable now, but can be a danger or threat later.

22. The original sentence is in the active voice: "The Romans expected to conquer Carthage." In this sentence, "The Romans" is the subject, and they are expecting to perform the action of conquering Carthage.

In passive voice, the structure is rearranged so that the receiver of the action becomes the subject. Option C, "It was expected by the Romans that they would conquer Carthage," reflects this change. In this construction, "It" is a placeholder subject, and "Carthage" is now the direct object.

23. The original sentence is in the active voice: "I saw him conducting the rehearsal." In this sentence, "I" is the subject, and "him" is the

object, and the action is "conducting the rehearsal."

To transform it into passive voice, we need to focus on the object and make it the subject of the passive construction. The passive construction often involves using a form of the verb "to be" along with the past participle of the main verb.

Option (D), "I saw the rehearsal being conducted by him," successfully transforms the sentence into passive voice. In this construction, "the rehearsal" becomes the subject, and "being conducted by him" represents the passive action.

24. The original sentence is in active voice: "A stone struck me on the head." In this sentence, "A stone" is the subject, and it is performing the action of striking "me" on the head.

To transform it into passive voice, the focus shifts from the doer of the action (the stone) to the receiver of the action (me). The general structure of a passive sentence involves a form of the verb "to be" along with the past participle of the main verb.

Option (D), "I was struck on the head by a stone," correctly transforms the sentence into passive voice. In this construction, "I" becomes the subject, and the action is expressed in terms of what happened to the subject rather than who performed the action.

25. The original sentence is in active voice: "Do you imitate others?" In this sentence, "you" are the subject, and the action is "imitate."

To transform it into passive voice, we need to shift the focus from the doer of the action (you) to the receiver of the action (others). The general structure of a passive sentence involves a form of the verb "to be" along with the past participle of the main verb.

Option (A), "Are others imitated by you?" correctly transforms the sentence into passive voice. In this construction, "others" become the

subject, and the action is expressed in terms of what is happening to the subject rather than who performed the action.

So, in the passive voice, the emphasis is on the action happening to the subject ("others"), and the agent ("by you") is placed at the end of the sentence. This accurately reflects the original sentence in a passive construction.

26. $(31)^{31} \times (31)^{-27} = (31)^{31-27}$
$$= (31)^4 = (31^2)^2$$
$$= (961)^2$$

27. $\dfrac{20}{3} + \dfrac{18}{5} + \dfrac{23}{6} = \dfrac{200 + 108 + 115}{30}$

$$= \dfrac{423}{30} = \dfrac{141}{10} = 14\dfrac{1}{10}$$

28. $64 + \dfrac{1}{8} \times 64 = 64 + 8 = 72$ cm

$72 + \dfrac{1}{8} \times 72 = 72 + 9 = 81$ cm

29. $\dfrac{36}{100} \times 450 - \dfrac{x}{100} \times 340 = 66.8$

$\Rightarrow 162 - 66.8 = 3.4x$

$\Rightarrow \qquad 95.2 = 3.4x$

$\Rightarrow \qquad x = \dfrac{95.2}{3.4} = 28$

30. Let C.P. = ₹ 80

S.P. = ₹ 144

Profit = 144 − 80 = ₹ 64

Profit% = $\dfrac{64}{80} \times 100$ = ₹ 80

31. $x^2 = 0.32 \times 0.02$

$\Rightarrow \qquad x^2 = \dfrac{32}{100} \times \dfrac{2}{100} = \dfrac{64}{100 \times 100}$

$\Rightarrow \qquad x = \dfrac{8}{100} = 0.08$

32.
$$\begin{array}{cc} A & B \\ 4500 \times 12 & 5400 \times 5 \end{array}$$
$$A : B = 5 \times 12 : 6 \times 5$$
$$= 12 : 6 = 2 : 1$$

Hence, B join after 7 months.

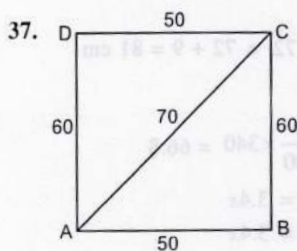**33.** The place value of 9 in $0.06945 = \dfrac{9}{1000}$

34. Capacity of the tank $= 24 \times 60 \times 4$ litres
$$= 5760 \text{ litres.}$$

36. Their relative speed $= (92 - 72)$ km/hr
$$= 20 \times \dfrac{5}{18} = \dfrac{50}{9} \text{ m/s}$$

$\therefore$ Length of each train $= \dfrac{1}{2} \times \left(\dfrac{50}{9} \times 54 \right)$ m
$$= 150.$$

37.

Area of ABCD $=$ ar of $\triangle$ABC $+$ ar $\triangle$ACD
$$= 2 \text{ area} + \triangle ABC$$

Area of $\triangle ABC = \sqrt{S(S-a)(S-b)(S-c)}$
$$= \sqrt{90(90-50)(90-60)(90-70)}$$
$$= \sqrt{90 \times 40 \times 30 \times 20}$$
$$= \sqrt{10 \times 3 \times 3 \times 10 \times 2 \times 2 \times 10 \times 3 \times 10 \times 2}$$
$$= 6 \times 10 \times 10 \times \sqrt{6}$$
$$= 600\sqrt{6}$$

Area of ||gm ABCD $= 2 \times 600\sqrt{6}$ cm^2
$$= 1200\sqrt{6} \text{ cm}^2.$$

38. Area of 4 walls $= 2(l + b) \times h$
$$216 = 2(l + 8) \times 6$$
$$\Rightarrow \quad l + 8 = \dfrac{216}{12} = 18 \text{ m}$$
$$\therefore \quad l = 18 - 8 = 10 \text{ m.}$$

Hence, length of the room $= 10$ m.

39.
$$6a^2 = 1176$$
$$\Rightarrow \quad a^2 = \dfrac{1176}{6} = 196$$
$$\Rightarrow \quad a = 14 \text{ cm}$$

Volume of cube $= (a)^3 = (14)^3 = 2744$ cm^3.

40. S.I. $= \dfrac{5800 \times 8 \times 2}{100} = ₹\ 928$

Amount after 2 years $= 5800 + 928$
$$= ₹\ 6728.$$

41. 2100 is not divided by 400

Hence, 2100 is not a leap year.

42. Angle traced by hour hand in $\dfrac{13}{3}$ hrs
$$= \left(\dfrac{360}{12} \times \dfrac{13}{3} \right)^\circ = 130^\circ$$

Angle traced by min hand in 20 min
$$= \left(\dfrac{360}{60} \times 20 \right)^\circ = 120^\circ$$

Required angle $= 130 - 120 = 10^\circ$.

43. Distance covered by B in 5 seconds
$$= \left(\dfrac{100}{40} \times 5 \right) \text{m} = \dfrac{25}{2} \text{ m}$$
$$= 12.5 \text{ m}$$

$\therefore$ A beats B by 12.5 m.

44. The HCF of $\dfrac{2}{3}, \dfrac{4}{9}, \dfrac{8}{21}$
$$= \dfrac{\text{HCF of Numerator}}{\text{LCM of denominator}}$$

$$= \frac{\text{HCF of 2, 4, 8}}{\text{LCM of 3, 9 21}}$$

$$= \frac{2}{21 \times 3} = \frac{2}{63}$$

45. $(1 + 0.1 + 0.01 + 0.001) = 1.111$

46. The correct answer $= \frac{89.1}{3 \times 3} = 9.9$

47. $348 \times 265 = 92220$

48. Let meena's present age $= x$ years
$$x + 15 = 5(x - 5)$$
$$\Rightarrow \quad 4x = 40$$
$$\Rightarrow \quad x = 10$$

Hence, Meena's present age = 10 years.

49. $(1000)^9 \div (10)^{24}$

$$= \left(10^3\right)^9 \div (10)^{24}$$
$$= 10^{27} \div 10^{24}$$
$$= 10^{27-24} = 10^3 = 1000.$$

50. $\frac{1}{2}\% = \frac{1}{2 \times 100} = \frac{1}{200} = 0.005.$

51.

Company	SLT	SIF	WIP	INF	HFC	MAF
Difference	17.00	46.21	7.00	18.29	6.05	19.00

52. Required Percentage $= \frac{18.29}{31.29} \times 100 = 58\%.$

53.

Company	SLT	SIF	WIP	INF	HFC	MAF
Average market price	11.96	30.73	13.16	20.76	9.91	25.16

54.

Company	SLT	SIF	WIP	INF	HFC	MAF
Ratio	3.33	3.82	1.36	1.73	1.25	1.6

55. Percentage gain $= \frac{16.00 - 15.00}{15.00} \times 100$
$$= 6.7\%.$$

56. VSNI's revenue from 1 Mbps connections in 2001

$$= \frac{72}{360} \times 15 = ₹ 3 \text{ lacs}$$

In $\quad 2000 = ₹ 2,20,000$

$\therefore$ % increase $= \frac{80,000}{2,20,000} \times 100$
$$= 36.36\%$$

57. Number of 1 Mbps connections
$$= 25\% \text{ of } 10,000 = 2500$$

Number of 512 Kbps connections
$$= 20\% \text{ of } 10000 = 2000$$

Cost of one 512 Kbps connections in 2001

$$= 15 \times \frac{43.2}{360} \times \frac{1}{2000} = ₹ 90$$

Cost of hundred 512 Kbps connections in 2001

$$= 15 \times \frac{43.2}{360} \times \frac{1}{2000} = ₹ 90$$

Cost of hundred 512 Kbps connections = ₹ 9000

Cost of buying fifty 1 Mbps connections

$$= 15 \times \frac{72}{3600} \times \frac{1}{2500} \times 50$$
$$= ₹ 6000$$

Discount offered of GE = 12.5%

$\therefore$ Amount paid by GE

$$= (9000 + 6000) \times \frac{87.5}{100}$$
$$= ₹ 13125$$

58. Revenue from 2 Mbps connections in 2001

$$= 15 \times \frac{144}{360} = ₹ 6 \text{ lacs}$$

Revenue from 2 Mbps connections in 2000

$$= 6 \times \frac{100}{125} = ₹ 4.8 \text{ lacs}$$

Revenue from 512 Kbps connections in 2001

$$= 15 \times \frac{43.2}{360} = ₹ \ 1.8 \text{ lacs}$$

Revenue from 512 Kbps connections in 2000

$$= 1.8 \times \frac{144}{120} = ₹ \ 1.5 \text{ lacs}$$

Now required % $= \frac{4.8}{1.5} \times 100 = 320\%.$

59. 256 Kbps subtends an angle of 38.4° whereas 128 Kbps subtends an angle of 33.6

∴ Ratio of their charges is 38.4 : 33.6 ≅ 1.14.

60. Reveneu from 2 Mbps connections in 2001

$$= 15 \times \frac{144}{360} = ₹ \ 6 \text{ lacs}$$

Revenue from 2 Mbps connections in 2002

$$= 6 + 2 = ₹ \ 8 \text{ lacs}$$

∴ Angle subtended by 2 Mbps connections

$$= \frac{8}{(15+2)} \times 360 \equiv 176°$$

61. Number of complaints received per 1000 washing machines for various years

$$1988 = \frac{1000}{40000} \times 1000 = 25$$

$$1989 = \frac{2000}{105000} \times 1000 = 19$$

$$1990 = \frac{3000}{210000} \times 1000 = 14$$

$$1991 = \frac{4500}{405000} \times 1000 = 11$$

Hence, it is maximum for the year 1988.

62. Approximate number of washing machines in service at the end of

End of 1988 = 0.4 × 0.9 = 0.36 lacs
End fo 1989 = 0.9(0.36 + 1.05) = 1.269 lacs
End of 1990 = 0.9(2.10 + 1.26) = 3.024 lacs
End of 1991 = 0.9(4.05 + 3.02) = 6.363 lacs

63. Percentage increage in the number of complaints in

$$1990 = \frac{3000-2000}{2000} \times 100$$

$$= \frac{1000}{2000} \times 100 = 50\%$$

and $\quad 1991 = \frac{4500-3000}{3000} \times 100$

$$= \frac{1500}{3000} \times 100 = 50\%.$$

64. Actual number of complaints
$$= 0.9 \times 4500 = 4050$$

Hence actual complaints per 1000 washing machines

$$= \frac{4050}{405000} \times 100 = 10.$$

65. Complaints in 1988 = 1000
Number of complaints of fuse blowing = 500
In $\quad$ 1989 = 1.2 × 500 = 600
$\quad$ 1990 = 1.2 × 600 = 720
$\quad$ 1991 = 1.2 × 720 = 864

% of complaints of fuse blowing in 1991

$$= \frac{864}{4500} \times 100 = 19.2\%.$$

66. Ratio of value of import to export is less than 1 for four years 1995, 1996, 1997 and 2000. Therefore, we can say that clearly in the years of 1995, 1996, 1997 and 2000, the exports more than imposts.

67. In year 1997, ratio of imports and exports
$$= 0.35$$

Imports $\quad$: $\quad$ Exports
35 $\quad$: $\quad$ 100

Then in this year, the imports were minimum proportionate to the exports.

68. The ratio of imports and exports in 1996
Imports $\quad$: $\quad$ Exports
85 $\quad$: $\quad$ 100

If imports is 272 crores, then

$$\text{Exports in 1996} = \frac{272}{85} \times 100$$

$$= 320 \text{ crore.}$$

69. Data is inadequate as the value of exports and imports not given.

70. The ratio of imports and exports in 1998 = 125

Imports : Exports
125 : 100
5 : 5

$$\text{Total exports in 1998} = \frac{250}{5} \times 4 = 200 \text{ crore}$$

The exports in 1999 = 500 – 200 = 300 crore

The ratio of imports and exports in 1999 = 1.4

Imports : Exports
14 : 10

Then, the imports in 1999 = $\frac{300}{10} \times 14$

$$= 420 \text{ crore}$$

71. Riveers and canals both are perennial source of water, and hence are subsets of it.

72. Ring is a part of ornament and diamond ring is a part of ring.

73. Small circle in figure B represents wives who work, because wives who work are a part of married persons as well as women.

74. All the three items are interrelated i.e., computer skilled may and may not be graduate as well as employed.

75. Because first divisioner and third divisioner both are students.

76. When the hands of the clock are in the same straight line but not together, they are 30 minute spaces apart.

At 7 o'clock, they are 25 min spaces apart.

∴ Minute hand will have to gain only 5 in spaces.

55 min spaces are gained in 60 min.

5 min spaecs are gained in $\left(\frac{60}{55} \times 5\right)$ min

$$= 5\frac{5}{11} \text{ min.}$$

∴ Required time = $5\frac{5}{11}$ min past 7.

77. Time from 8 am of a particular day to 1 pm on the following day = 29 hours. Now the clock gains 10 min in 24 hours, it means that 24 h 10 min of this clock is equal to 24 h of the correct clock.

$\frac{145}{6}$ h of this clock = 24 h of the correct clock.

29 h of this clock = $\frac{24}{145} \times 6 \times 29$

$$= 28 \text{ h, } 48 \text{ min of the correct clock}$$

29 h of this clock = 28 h, 48 min of the correct clock

It means that the clock in question is 12 min faster than the correct clock. When clock indicated 1 pm, the correct time would be 48 min past 12.

78. Every day of the weeks is repeated after 7 days. Hence, after 56 days it would be Thursday again. And after 59 days it would be Sunday.

79. 1994 was an ordinary year, so it had 1 odd day. So, the day on 8th February, 1995 is one day beyond the day on 8th February, 1994.

But, 8th February 1995 was Wednesday.

∴ 8th February 1994 was Tuesday.

Hence, (C) is the correct answer.

83. The only daughter of Vipin's mother-in-law is the wife of Vipin. Therefore, the statement, in other words implies that "Het mother is my wife." It is, hence clear that Vipin is the father of that girl.

84. The only son of Vineet's grandfather is the father of Vineet and daughter of Vineet's father is the sister of Vineet. Hence, Vineet is the brother of the lady.

85. Mother's husband's sister means that sister of father. Hence, lady is the sister of the man.

86. The only daughter of the woman's father is the herself. Hence, the woman and the man has a wife-husband relationship.

87. It is logical to say that at the age of 5, the child reaches appropriate level of development and ready to learn. Hence, assumption I is very much implicit in the statement. Assumption II is not implicit as it is not relevant.

88. None of the assumptions is implicit in the statement as there may be various reasons for the same.

89. None of the assumptions is implicit as nothing can be said definitely.

90. Since A advises B to join institute Y to study English, hence itf is assumed that insitute Y provides good coaching for English. Secondly, it is also assumed that B listens to A's advice.

96. Nuclear explosion is not the result of the favour by the citizens. Hence, conclusion I does not follow. However, increase in the international opposition is due to the fact that some powerful nations do not want others may become powerful.

97. From the commitment of the present Govt., it cannot be concluded that former Govt. did not do anything serious about the development nor does it mean that present Govt. will not do anything for development of other sectors, hence neither of the conclusions follows.

98. Neither of the conclusions definitely follows from the statement because it cannot be concluded from the statement that India has achieved sufficient development in the field of basis and pure science. Nor does the statement mean that production sector in the past remained neglected.

99. It is given in the statement that most of the labourers belonging to unorganised sector earn very low and uncertain, it means that there are some labourers who earn regular and certain income. Hence, conclusion (B) definitely follows from the statement.

100. Conclusion I is tottally unrelated to the statement and conclusion II is contrary to the statement. Hence, none of the conclusions follows.