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SBI PO Prelim Model Paper - 2

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Quantitative Aptitude

1. What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?
   a) 1
   b) 14
   c) 20
   d) 21
   e) None of these

2. $(935421 \times 625) = ?$
   a) 575648125
   b) 584638125
   c) 584649125
   d) 585628125
   e) None of these

3. Reena took a loan of Rs.1200 with simple interest for as many years as the rate of interest. If she paid Rs.432 as interest at the end of the loan period, what was the rate of interest?
   a) 3.6
   b) 6
   c) 18
   d) Data inadequate
   e) None of these

4. A leak in the bottom of a tank can empty the full tank in 8 hours. An inlet pipe fills water at ther ate of 6 litres a minute. When the tank is full, the inlet is opened and due to the leak, the tank is empty in 12 hours. How many litres does the cistern hold?
   a) 7580
   b) 7960
   c) 8290
   d) 8640
   e) None of these

5. In what ratio must a grocer mix two varieties of pulses costing Rs.15 and Rs.20 per kg respectively so as to get a mixture worth Rs.16.50 kg?
   a) 3 : 7
   b) 5 : 7
   c) 7 : 3
   d) 7 : 5
   e) None of these

6. At what time, in minutes, between 3 o'clock and 4 o'clock, both the needles will coincide each other?
   a) $5\frac{1}{11}$
   b) $12\frac{4}{11}$
   c) $13\frac{4}{11}$
   d) $16\frac{4}{11}$
   e) None of these

7. What was the day of the week on 28th May 2006?
   a) Thursday
   b) Friday
   c) Saturday
   d) Sunday
   e) None of these

Directions (Q. 8-12) The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it.

Various Expenditures (in percentage) Incurred in Publishing a Book
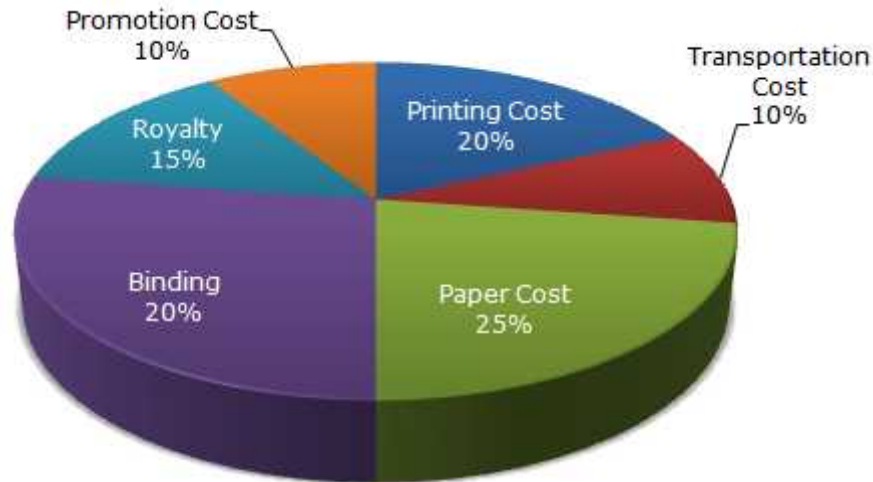
8. If for a certain quantity of books, the publisher has to pay Rs.30,600 as printing cost, then what will be amount of royalty to be paid for these books?
   a) Rs.19,450   b) Rs.21,200   c) Rs.22,950
   d) Rs.26,150   e) None of these

9. What is the central angle of the sector corresponding to the expenditure incurred on royalty?
   a) 15°   b) 24°   c) 54°
   d) 48°   e) None of these

10. The price of the book is marked 20% above the C.P. If the marked price of the book is Rs.180, then what is the cost of the paper used in a single copy of the book?
    a) Rs.36   b) Rs.37.50   c) Rs.42
    d) Rs.44.25   e) None of these

11. If 5500 copies are published and the transportation cost on them amounts to Rs.82500, then what should be the selling price of the book so that the publisher can earn a profit of 25%?
    a) Rs.187.50   b) Rs.191.50   c) Rs.175
    d) Rs.180   e) None of these

12. Royalty on the book is less than the printing cost by:
    a) 5%   b) $33\frac{1}{5}$%   c) 20%
    d) 25%   e) None of these

13. A man can row upstream at 8 kmph and downstream at 13 kmph. The speed of the stream is
    a) 2.5 km/hr   b) 4.2 km/hr   c) 5 km/hr
    d) 10.5 km/hr   e) None of these

14. If the sum of the interior angles of a regular polygon measures upto 1440 degrees, how many sides does the polygon have?
    a) 10 sides   b) 8 sides   c) 12 sides
    d) 9 sides   e) None of these

15. Number of solutions of the equation tan x + sec x = 2 cos x, lying in the interval [0, 2] is
    a) 0   b) 1   c) 2
    d) 3   e) None of these

16. A alone can do a piece of work in 6 days and B alone 8 days. A and B undertook to do it for Rs.3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?
    a) Rs.375   b) Rs.400   c) Rs.600
    d) Rs.800   e) None of these

17. A train travels at an average of 50 miles per hour for 2x1/2 hours and then travels at a speed of 70 miles per hour for 1x1/2 hours. How far the train did travels in the entire 4 hours?
    a) 120 miles   b) 150 miles   c) 200 miles
    d) 230 miles   e) None of these

18. What number should be divided by $\sqrt{0.25}$ to give the results as 25?
    a) 12.5   b) 25   c) 50
    d) 125   e) None of these

19. Let a_n be the nth term of an A.P. and $a_7 = 22$, then the value of the common difference (d) that would make $a_3 . a_7 . a_{11}$ greatest is :
    a) 4   b) 2   c) 0
    d) 7   e) None of these

20. A shopkeeper give 12% additional discount on the discounted price, after giving an initial discount of 20% on the labeled price of a radio. If the final sale price of the radio is Rs.704, then what is its labeled price?
    a) Rs.844.80   b) Rs.929.28   c) Rs.1000
    d) Rs.1044.80   e) None of these

21. A person was asked to state his age in years. His reply was, "Take my age three years hence, multiply it by 3 and then subtract three times my age three years ago and you will know how old I am." What was the age of the person?
    a) 14 years   b) 18 years   c) 20 years
    d) 32 years   e) None of these

22. Three unbiased coins are tossed. What is the probability of getting at most two heads?
    a) $\frac{3}{4}$ b) $\frac{1}{4}$ c) $\frac{3}{8}$

    d) $\frac{7}{8}$ e) None of these

23. In how many ways can the letters of the word 'LEADER' be arranged?
    a) 72   b) 144   c) 360
    d) 72   e) None of these

24. Find the greatest number that will divide 43, 91 and 183 so as to leave the same remained in each case.
    a) 4   b) 7   c) 9
    d) 13   e) None of these

25. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?
a) 76Kg   b) 76.5Kg   c) 85Kg
d) Data inadequate   e) None of these

26. In Arum's opinion, his weight is greater than 65 kg but less than 72 kg. His brother doest not agree with Arum and he thinks that Arum's weight is greater than 60 kg but less than 70 kg. His mother's view is that his weight cannot be greater than 68 kg. If all are them are correct in their estimation, what is the average of different probable weights of Arum?
a) 67 kg   b) 68 kg   c) 69 Kg.
d) Data inadequate   e) None of these

27. Product of two co-prime numbers is 117. Their LCM should be
a) 1   b) 117   c) equal to their H.C.F.
d) Cannot be calculated e) None of these

28. A starts a business with Rs.3500 and after 5 months, B joins with A as his partner. After a year, the profit is divided in the ratio 2 : 3. What is B's contribution in the capital?
a) Rs.7500   b) Rs.8000   c) Rs.8500
d) Rs.9000   e) None of these

29. In how many different ways can the letters of the word 'DETAIL' be arranged in such a way that the vowels occupy only the odd positions?
a) 32   b) 48   c) 36
d) 60   e) None of these

30. Two dice are tossed. The probability that the total score is a prime number is:
a) 1/6   b) 5/1   c) 1/2
d) 7/9   e) None of these

31. The sum of the ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
a) 4 years   b) 8 years   c) 10 years
d) 12 years   e) None of these

32. A shopkeeper professes to sell his goods at cost price but uses a weight of 800 gm instead of kilogram weight. Thus, he make a profit of
a) 20%   b) 22%   c) 25%
d) Data inadequate   e) None of these

33. The number of common terms to the two sequences 17, 21, 25 …. 417 and 16, 21, 26 …. 466 is :
a) 19   b) 20   c) 21
d) 84   e) None of these

34. $\sqrt{50} \times \sqrt{98}$ is equal to
a) 63.75   b) 65.95   c) 70
d) 70.25   e) None of these

35. An athlete runs 200 meters race in 24 seconds. His speed is
    a) 20 km/hr   b) 24 km/hr   c) 28.5km/hr
    d) 30km/hr   e) None of these

Reasoning Ability

36. How many such pairs of letters are there in the word TRIBUNAL each of which has as many letters between them in the word as in the English alphabet?
    a) None   b) One   c) Two
    d) Three   e) More than three

37. In a certain code DOWN as '5@9#' and NAME is written as '#6%3'. How is MODE written in that code?
    a) %653   b) %@63   c) %5@3
    d) %@53   e) None of these

38. How many meaningful English words can be formed with the letters LGEU using each letter only once in each word?
    a) None   b) One   c) Two
    d) Three   e) More than three

39. If 'R' denotes ' ', 'Q' denotes 'X', 'W' denotes '÷' and 'A' denoted '+', then
    42 W   7   R   8   A   6   Q   4 = ?
       a)   22   b)   168   c) 22
    d) 28   e) None of these

40. In a certaincode THRIVES is written as SIUHRDU. How is SOULFUL written in that code?
    a) VPTKKTE   b) VPTKETK   c) TPVKKTE
    d) TNRKMVG   e) None of these

41. The positions of how many digits in the number 59164823 will remain unchanged after the digits are rearranged in descendign order within the number?
    a) None   b) One   c) Two
    d) Three   e) More than three

42. Mohan walked 30 metres towards South, took a left turn and walked 15 metres. He then took a right turn and walked 20 metres. He again took a right turn and walked 15 metres. How far is he from the starting point?
    a) 95 metres   b) 50 metres   c) 70 metres
    d) Can't be determined   e) None of these

43. What should come next in the following letter series?
    PQRSTABCDEPQRSABCDEPQRSABCDPQ
    a) R   b) T   c) A
    d) B   e) None of these

44. In a certain code language, 'how can you go' is written as 'ja da ka pa'. 'can you come here' is written as 'na ka sa ja' and 'come and go' is written as 'ra pa sa'. How is 'here' written in that code language?
a) ja
b) na
c) pa
d) Data inadequate
e) None of these

45. What should come next in the following letter series based on English alphabet?
CEA   IKG   OQM   ?
a) STW
b) WUS
c) SWU
d) UWS
e) None of these

Directions (Q. 46-50) In each of the questions below are given four statements followed by four conclusions numbered I, II, III and IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

46. **Statements:** Some trains are cars.
           All cars are branches.
           All branches are nets.
           Some nets are dresses.
Conclusions: I. Only I and II follow
                     II. Only II and III follow
                     III. Only I and IV follow
                     IV. Some roads are clips.
a) Only I and II follow
b) Only II and III follow
c) Only I and IV follow
d) Only II, III and IV follow
e) None of these

47. **Statements:** All papers are clips.
           Some clips are boards.
           Some boards are lanes.
           All lanes are roads.
Conclusions: I. Some roads are boards.
                     II. Some lanes are clips.
                     III. Some boards are papes.
                     IV. Some roads are clips.
a) Only I and II follow
b) Only I and III follow
c) Only I, II and III follow
d) Only II, III and IV follow
e) None of these

48. **Statements:** Some pencils are kites.
           Some kites are desks.
           All desks are jungles.
           All jungles are mountains.
Conclusions: I. Some mountains are pencils.
                     II. Some jungles are pencils.

III. Some mountains are desks.

IV. Some jungles are kites.

a) Only I and III follow

b) Only I, II and III follow

c) Only III and IV follow

d) Only II, III and IV follow

e) None of these

49. **Statements:** All stones are hammers.

No hammer is ring.

Some rings are doors.

All doors are windows.

Conclusions: I. Some windows are stones.

II. Some windows are rings.

III. No window is stone.

IV. Some rings are stones.

a) Only I follows

b) Only II follows

c) Only III follows

d) Only eithre I or III follows

e) Only either I or III and II follow

50. **Statements:** All pens are clocks.

Some clocks are tyres.

Some tyres are wheels.

Some wheels are buses.

Conclusions: I. Some buses are tyres.

II. Some wheels are clocks.

III. Some wheels are pens.

IV. Some buses are clocks.

a) None follows

b) Only I follows

c) Only II follows

d) Only III follows

e) Only IV follows

Directions (Q. 51-55) Study the following information carefully and answer the questions given below:

A, B, C, D, E, F, G, H and K are sitting around a circle facing the centre. F is 4th to the right of A who is 3rd to the right of B. K is 4th to the left of B and 3rd to the right of D. C is 3rd to the right of H. E is 2nd to the left of G.

51. Who is to the immediate right of F?

a) B   b) G   c) E

d) Data inadequate   e) None of these

52. Who is 3rd to the right of K?

a) F   b) E   c) G

d) Data inadequate   e) None of these

53. What is E's position with respect to B?
   a) 2nd to the left
   b) 3rd to the right
   c) 4th to the right
   d) 3rd to the left
   e) 5th to the right

54. Who is 4th to the left of G?
   a) C   b) A   c) D
   d) K   e) Data inadequate

55. In which of the following combinations is the 3rd person sitting betweenthe 1st and the 2nd persons?
   a) GFB   b) BGH   c) ADC
   d) KEC   e) EGF

Directions (Q. 56-60) In the following questions, the symbols !, @, ©, % and * are used with the following meaning as illustrated below:

'P © Q' means 'P is not smalle than Q'.
'P % Q' means 'P is neither smaller than nor equal to Q'.
'P * Q' means 'P is neither greater than nor equal to Q'.
'P ! Q' means 'P is not greater than Q'.
'P @ Q' means 'P is neither greater than nor smaller than Q'.
Now in each of the following questions assuming the given statements to be true, find which of the three conclusions I, II, III and IV given below them is/are definitely true and give your answer accordingly.

56. **Statements:** D ! T, T @ R, R © M, M % K
   Conclusions: I. R @ D
                           II. R % D
                           III. K * T
                           IV. M ! T
   a) Only either I or II is true
   b) Only III and IV are true
   c) Only either I or II and III are true
   d) Only either I or II and IV are true
   e) Only either I or II and III and IV are true

57. **Statements:** J @ F, F ! N, N % H, H © G
   Conclusions: I. G * N
                           II. N © J
                           III. F * J
                           IV. J ! G
   a) Only I and II are true
   b) Only I, II and III are true
   c) Only II, III and IV are true
   d) All I, II, III and IV are true
   e) None of these

58. **Statements:** R * K, K % D, D @ V, V ! M

Conclusions: I. R * D
          II. V * R
          III. D @ M
          IV. M % D

a) None is true
b) Only III is true
c) Only IV is true
d) Only either III or IV is true
e) None of these

59. **Statements:** B © T, T * R, R % F, F @ K
Conclusions: I. B % R
          II. F * T
          III. R % K
          IV. K & T

a) None is true
b) Only I is true
c) Only II is true
d) Only III is true
e) Only IV is true

60. **Statements:** F % N, N © W, W ! Y, Y – T
Conclusions: I. F % W
          II. T % N
          III. N % Y
          IV. T % W

a) Only I and III are true
b) Only I and IV are true
c) Only II and III are true
d) Only I, II and IV are true
e) None of these

Directions (Q. 61-65) In making decision about important question, it is desirable to be able to distinguish between 'strong' arguments are those which are both important and directly related to the question. 'Weak' arguments are those which are of minor importance and also may not be directly related to the question or may be related to a trivial aspect of the question.
Each question below is followed by three arguments numbered (A), (B) and (C). You have to decide which is the arguments is a 'strong' arguments and which is a 'weak' argument.

61. **Statement** Should there be complete ban on setting up of thermal power plants in India?
Arguments:
(A) Yes, this is the only way to arrest further addition to environmental pollution.
(B) No, there is a huge shortage of electricity in most parts of the country and hence generation of electricity needs to be augmented.
(C) No, many developed countries continue to set up thermal power plants in their countries.
 a) None is strong
 b) Only (A) is strong
 c) Only (B) is strong
 d) Only (C) is strong
 e) Only either (A) or (B) is strong

62. **Statements:** Should road repair work in big cities be carried out only late at night?
Arguments:
(A) No, this way the work will never get completed.
(B) No, there will be unncessary use of electricity.
(C) Yes, the commuters will face lot of problems due to repair work during the day.
    a) None is strong
    b) Only (A) is strong
    c) Only (C) is strong
    d) Only (B) and (C) are strong
    e) Only (A) and (B) are strong

63. **Statements:** Should all the deemed universities be derecognized and attached to any of the central of state universities in India?
Arguments:
(A) Yes many of these deemed universities do not conform to the required standards of a full-fledged university and hence the level of education is compromised.
(B) No, these deemed universities have been able to introduce innovative courses suitable to the requirement of various industries as they are free from strict government controls.
(C) Yes, many such universities are basically money spinning activities and education takes a backseat in these institutions.
    a) Only (A) and (B) are strong
    b) Only (B) and (C) are strong
    c) Only (A) and (C) are strong
    d) All (A), (B) and (C) are strong
    e) None of these

64. **Statement:** Should there be a cap on drawing groundwater for irrigation purposes in India?
Arguments:
(A) No, irrigation is of prime importance for food production in India and it is heavily dependent on groundwater in many parts of the country.
(B) Yes, water tables have gone down to alarmingly low levels in some parts of the country where irrigation is primarily dependent on groundwater, which may lead to serious environmental consequences.
(C) Yes, India just cannot afford to draw groundwater any furthre as the international agencies have cautioned India against it.
    a) Only (A) and (B) are strong
    b) Only (B) and (C) are strong
    c) Only (A) and (C) are strong
    d) All (A), (B) and (C) are strong
    e) None of these

65. **Statements:** Should there be a restriction on the construction of high rise building in big cities in India?
Arguments:
(A) No, big cities in India do not have adequate open land plots to accommodate the growing population.
(B) Yes, only the builders and developers benefit from the construction of high rise buildings.
(C) Yes, the Government should first provide adequate infrastructural facilities to existing building before allowing the construction of new high rise buildings.

a) Only (B) is strong
b) Only (C) is strong
c) Only (A) and (C) are strong
d) Only (A) is strong
e) None of these

Directions (Q. 66-70) In each question below is given a statement followed by three assumptions (A), (B) and (C). An assumption is something supposed or taken for granted. You have to consider the statements and the following assumptions and decide which of the assumptions is implicit in the statement.

66. **Statement:** The Government has decided to auction construction of highways to private entities in several blocks across the country on build-operate-transfer basis.
Which of the following assumption(s) is/are implicit in the above statement?
(A) An adequate number of private entities may not respond to the Government's auction notification.
(B) Many private entities in the country are capable of constructing highways within reasonable time.
(C) The Government's proposal of build-operate-transfer may financially benefit the private entities.
  a) Only (A) and (B) are implicit
  b) Only (B) and (C) are implicit
  c) Only (B) is implicit
  d) Only (A) and (C) are implicit
  e) None of these

67. **Statement:** Government has urged all the citizens to use electronic media for carrying out their daily activities, whenever possible, instead of using paper as the manufacture of paper requires the cutting down of a large number of trees causing severe damage to the ecosystem.
Which of the following assumption(s) is/are implicit in the above statement?
(A) Most people may be capable of using electronic media to carry out various routines.
(B) Most people may have access to electronic media for carrying out their daily routine activities.
(C) People at large may reject the Government's appeal and continue using paper as before.
  a) Only (A) is implicit
  b) Only (B) is implicit
  c) Only (A) and (B) are implicit
  d) Only (C) is implicit
  e) None of these

68. **Statement:** The apex body controlling universities in the country has decided to revise the syllabus of all the technical courses to make them focused towards the present needs of the industry thereby making the technical graduates more employable than they are at present.
Which of the following assumption(s) is/are implicit in the above statement?
(A) Technical colleges affiliated to different universities may not welcome the apex body's decision and may continue with the same syllabus as at present.
(B) The industry may welcome the decision of the apex body and scale up their hiring from these colleges.
(C) The Government may not allow the apex body to implement its decision in all the colleges as it may lead to chaos.
  a) None is implicit

b) Only (A) is implicit
c) Only (B) is implicit
d) Only (C) is implicit
e) Only (A) and (B) are implicit

69. **Statement:** Police authority cordoned off the entire locality for the entire day and stopped all vehicular movement for the visit of a top functionary of the government in view of the threat perception and advised all the residents in the area to limit their movement outside their dwellings.

Which of the following assumption(s) is/are implicit in the above statement?

(A) Police personnel may not be able to control the vehicular movement in the locality and may seek help from the armed forces.
(B) People living in the locality may move out of their houses for the day to avoid inconvenience.
(C) The Government functionary may request the police authority to lift the ban on movement residents of the locality outside their dwellings.
   a) None is implicit
   b) Only (A) is implicit
   c) Only (B) is implicit
   d) Only (C) is implicit
   e) None of these

70. **Statement:** The airlines have requested all their bonafide passengers to check the status of flight operations before leaving their homes as heavy fog is causing immense problems to normal flight operations.

Which of the following assumption(s) is/are implicit in the above statement?

(A) The majority of the air passengers may check the flight status before starting their journey to the airport.
(B) The Government may take serious objection to the notice issued by the airline company.
(C) Majority of the passengers may cancel their tickets and postpone their journey till the situation becomes normal.
   a) None is implicit
   b) Only (A) is implicit
   c) Only (B) is implicit
   d) Only (C) is implicit
   e) None of these

English Language

Directions (Q. 71-80) Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you to locate them while answering some of the questions.

Once a thief named Kalu had planned to loot the king's treasury. At midnight, he went to the palace and began to drill a hole in the side wall of the treasury. The king, who was awake in his bedroom just above the treasury, came out to investigate the whirring sound. He was dressed in a simple nightgown and the thief could not recognize him. He asked Kalu who he was and what he was doing. The latter said, "Sir, I am a thief and intend to loot this treasury. I presume that you are also a thief and have come with

the same intentin. No matter, let us both go inside and we shall share the loot equally. "Both entered the treasury and divided all the money and the jewels equally between them.

Inside a locker they found three big diamond pieces. As the thief was puzzled as to how to divide the three pieces into two portions, the king sigggested. "We have taken away everything else. Let us leave one diamond piece for the poor king and share the rest equally". Kalu agreed and when he took his leave, the king asked for his name and address. As Kalu had taken a vow of telling only the truth, he h ave the correct information.

The king took away his share of the loot and hid it in his room. Next morning he asked his Prime Minister to inspect the treasury as he had heard some strange sounds during the **previous** night. The Prime Minister saw to his horror that all the valuables were missing and only a single diamond was left, perhaps **inadvertantly,** by the theif. He put the diamond in his oiwn shift pocket as its loss could be **ascribed** to the thief and nobody would suspect the Prime Minister. The Prime Minister went back to the king. The king particularly enquirerd. "Do you mean that the theif has completely **denuded** the treasury of its valuables and not a single item has been left?" The Prime Minister confirmed it. The king asked the chief of police to bring in Kalu. When Kalu came he was unable to recfognize the king as his **accomplice** of the previous night. The king asked him, "Are you the theif who has stolen everything from my treasury leaving nothing back?" Kalu confirmed it but said, "Sir, I did leave one diamond back in the locker as advised by an accomplice of mine and it should st ill be there." The Prime Minister interrupted saying, "Your Majesty, this thief is lying. There is nothing left in the locker." The king asked the police chief to search the pockets of the Prime Minister, from where the missing diamond was recovered. The kind told his courtiers, "Here is a Prime Minister, who is a liar and a thief and here is a thief who is at truthful gentleman."

71. The king came out in the middle of the night in order to ...
    a) Help Kalu to break into the palace treasury
    b) Share the loot equally between Kalu and himself
    c) Find out the source of and reason for the sound he had heard
    d) Catch the thief who had come to steal his valuables
    e) None of these

72. Kalu could not recognize the kjing because ...
    a) The king was wearing clothes like those of an ordinary person
    b) The king's clothes were covered by a simple nightgown
    c) Kalu had never seen the king before
    d) Kalu had not seen the king descending from his bedroom
    e) None of these

73. Which of the following made the king suspect the Prime Minister? The Prime Minister's statement that ...
    a) Except for one piece of diamond all other valuables were stolen
    b) All the valuables without any exception were stolen from the treasury
    c) The thief was lying when he said h e had left one diamond back in the locker
    d) The search for the diamond did not yield any favourable result
    e) None of these

74. Which of the following horrified the Prime Minister?
    a) The valuables missing from the King's treasury
    b) A piece of diamond left in the locker

c) Certain strange sounds heard by the Prime Minister
d) The fact that the king suspected him of stealth
e) None of these

75. Choose the word which is most nearly the Same in meaning as the word given in bold as used in the passage.
Accomplice
a) C-traveller   b) Collaborator   c) Controller
d) Coordinator   e) None of these

76. Choose the word which is most nearly the Same in meaning as the word given in bold as used in the passage.
Ascribed
a) Attributed   b) Donated   c) Attached
d) Withdrew   e) None of these

77. Choose the word which is most nearly the Same in meaning as the word given in bold as used in the passage.
Denuded
a) Uncovered   b) Stripped   c) Destroyed
d) Eiscarded   e) None of these

78. Choose the word which is most Opposite in meaning of the word given in bold as used in the passage.
Inadvertently
a) Knowingly   b) Sensibly   c) Indifferently
d) Unwittingly   e) None of these

79. Choose the word which is most Opposite in meaning of the word given in bold as used in the passage.
Previous
a) New   b) Preceding   c) Novel
d) Subsequent   e) None of these

80. They decided to leave the diamond inside the locker because ….
A. They wanted some part of the wealth to be left for the Prime Minister.
B. It was difficult for them to carry the 3rd piece of diamond.
C. The total number of diamonds being odd, they had to leave out onepiece to facilitate equal distribution.
a) None   b) All the three   c) Only A
d) Only B   e) Only C

Directions (Q. 81-85): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.
A. The reasons for their happiness was that they had come to the Vithal temple of Pandharpur to see their beloved Lord.
B. There were rich, poor men, women, children, blind, handicapped among them.
C. They were all in a very happy state of mind, as was apparent from their glowing faces.
D. They would worship and seek the Divine blessings while in Pandharpur.

E. It was an auspicious day and many people had assembled in the temple.

F. Though different there was one commonality among.

81. Which of the following should be the Fourth statement after rearrangement?
    a) A   b) B   c) C
    d) D

82. Which of the following should be the Fifth statement after rearrangement?
    a) A   b) B   c) C
    d) D

83. Which of the following should be the Sixth statement after rearrangement?
    a) A   b) B   c) C
    d) D

84. Which of the following should be the First statement after rearrangement?
    a) A   b) B   c) C
    d) E

85. Which of the following should be the Second statement after rearrangement?
    a) A   b) B   c) C
    d) D

Directions (Q. 86-90) Read this sentence to find out whether there is any grammatical mistake/error in it. The error, if any, will be in one part of the sentence. Mark the part with the error as your answer. If there is no error, mark 'No error' as your answer. (Ignore the errors of punctuation if any).

86. Mangal Pandey was well known (a) / because he was involved (b) / in the initial stages (c) / of the Indian rebellion. (d) / No error (e)

87. Most of the Indian populatoins still lives (a) / in its villages and thus the contribution of (b) / agriculture to Indian economy (c) / becomes very important. (d) / No error (e)

88. Catherine's grandfather always (a) / lost his balance while walking (b) / and would be found fallen (c) / on the road. (d) / No error (e)

89. Her doctor was (a) / annoyed because she (b) / ignore her health (c) / even after being hospitalised twice. (d) No error (e)

90. Raghav was worry (a) / about telling his parents (b) / that he wanted to move out (c) / and live independently. / (d) No error (e)

Directions (Q. 91-95) Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.

91. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.
    a) Adventure   b) Demonstration   c) Environment
    d) Innosent   e) All Correct

92. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.
a) Limitasion   b) Dependable   c) Miniature
d) Qualitative   e) All Correct

93. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.
a) Lucrative   b) Ancestral   c) Performanse
d) Incidentally   e) All Correct

94. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.
a) Futility   b) Separasion   c) Embarrassment
d) Positively   e) All Correct

95. Below the four words are given. One of these four words may be wrongly spelt. Find out the word which is wrongly spelt, if there is any. The number of that word is your answer. If all the words are correctly spelt mark All correct as the answer.
a) Tournament   b) Enhancement   c) Amazingly
d) Continuation   e) All Correct

Directions (Q. 96-100): Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph and then answer the questions given below.
A. Besides, they get a lot of exposure to novel things through media.
B. Therefore, their mental development did not show any extraordinary signs.
C. Children of the present generation appear to be smarter than their earlier counterparts.
D. Thus, the environment of present days has brought out these changes.
E. This is probably because there are lots of opportunities for their indirect learning.
F. Children of yester years did not have these facilities.

96. Which of the following will be the Third sentence after rearrangement?
a) A   b) B   c) C
d) D

97. Which of the following will be the First sentence after rearrangement?
a) A   b) B   c) C
d) D

98. Which of the following will be the Sixth sentence after rearrangement?
a) A   b) B   c) C
d) D

99. Which of the following will be the Second sentence after rearrangement?
a) A   b) B   c) C
d) E

100. Which of the following will be the Fifth sentence after rearrangement?

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

Answers:

1. Clearly, the numbers which have 1 or 9 in the unit's digit, have squares that end in the digit 1.
    Such numbers from 1 to 70 are 1, 9, 11, 19, 21, 29, 31, 39, 41, 49, 51, 59, 61, 69
    Number of such number = 14
    So, required percentage = $[\frac{14}{70} \times 100]\% = 20\%$

2. $935421 \times 625 = 935421 \times 5^4 = 935421 \times [\frac{10}{2}]^4$
    $= \frac{935421 \times 10^4}{2^4} = \frac{9354210000}{16}$
    $= 584638125$

3. Let rate = R% and time = R years

    Then, $[\frac{1200 \times R \times R}{100}] = 432$
    $12r^2 = 432$
    $R^2 = 36$
    $R = 6$

4. Work done by the inlet in 1 hour = $[\frac{1}{8} \quad \frac{1}{12}] = \frac{1}{24}$
    Work done by the inlet in 1 minute = $[\frac{1}{24} \times \frac{1}{60}] = \frac{1}{1440}$
    Volume of $\frac{1}{1440}$ part = 6 litres. Therefore, Volume of whole = $[1440 \times 6]$
    = 8640 litres

5. By the rule of allegation:

Cost of 1 kg pulses of 1st kind   Cost of 1 kg pulses of 2nd kind
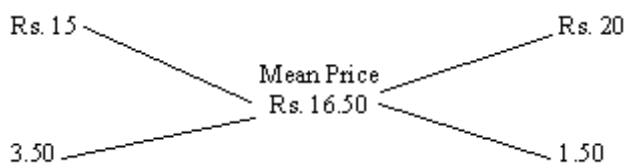
So, required rate = 3.50 : 1.50 = 7 : 3

6. At 3 o'clock, the minute hand is 15 min. spaces apart from the hour hand.
    To be coincident, it must gain 15 min. spaces
    55 min. are gained in 60 min.
    15 min. are gained in $[\frac{60}{55} \times 15]$ min. $= 16\frac{4}{11}$ min.
    So, the hands are coincident at $16\frac{4}{11}$ min. past 3

7. 28 May 2006 = (2005 years + period from 1.1.2006 to 28.5.2006)
    Odd days in 1600 years = 0
    Odd days in 400 years = 0
    5 years = (4 ordinary years + 1 leap year) = (4 × 1 + 1 × 2) = 6 odd days

Jan.		Feb.		March		April		May	
(31	+	28	+	31	+	30	+	28)	= 148 days

So, 148 days = (21 weeks + 1 day) = 1 odd day
Total number of odd days = (0 + 0 + 6 + 1) = 7 = 0 odd day.
Given day is Sunday

8. Let the amount of royalty to be paid for these books be Rs.r.
    Then, 20 : 15 = 30600 : r = Rs. $\frac{30600 \times 15}{20}$ = Rs.22,950

9. Central angle corresponding to royalty = 15% of 360°
    = $\left(\frac{15}{100} \times 360\right)^{\circ}$
    = 54°

10. Clearly, marked price of the book = 120% of C.P.
    Also, cost of paper = 25% of C.P.
    Let the cost of paper for a single book be Rs.n.
    Then, 120 : 25 = 180 : n n = Rs. $\frac{25 \times 180}{120}$ = Rs.37.50

11. For the publisher to earn a profit of 25%, S.P. = 125% of C.P.
    Also transportation cost = 10% of C.P.
    Let the S.P. of 5500 books be Rs.x.
    Then, 10 : 125 = 82500 : x   x = Rs. $\frac{125 \times 82500}{10}$ = Rs.1031250
    ∴ S.P. of one book = Rs. $\frac{1031250}{5500}$ = Rs.187.50

12. Printing cost of book = 20% of C.P.
    Royalty on book = 15% of C.P.
    Difference = 20% of C.P. 15% of C.P. = 5% of C.P.
    ∴ percentage difference =[$\frac{difference}{printign\,cost}$ × 100]%
    = [$\frac{5\%\,of\,C.P.}{printing\,cost}$ × 100]% = 25%

13. Speed of stream   = $\frac{1}{2}$ (13 8) kmph
    = $\frac{1}{2}$ × 5
    = $\frac{5}{2}$
    = 2.5

14. We know that the sum of an exterior angle and an interior angle of a polygon = 180°
    We also know that sum of all the exterior angles of a polygon = 360°
    The question states that the sum of all interior angles of the given polygon = 1440°
    Therefore, sum of all the interior and exterior angles of the polygon = 1440 + 360 = 1800
    If there are 'n' sides to this polygon, then the sum of all the exterior and interior angles = 180 × n
    = 10

15. tan x + sec x = 2 cos x
    sin x + 1 = 2 cos^2 x, cos x   0

sin x + 1 = 2 (1 sin^2 x)

2 sin^2 x + sin x 1 = 0

This is quadratic equation in sin x. Solve for sin x

sin x = 1 or sin x = ½

sin x = 1

cos x = 0, which is not possible [cos x 0 from above]

∴ sin x = ½

x = or x = (/ 6), in the interval [0, 2]

x = or x = $\frac{5\pi}{6}$

16. C's 1 day's work $= \frac{1}{3} \quad [\frac{1}{6} + \frac{1}{8}] = \frac{1}{3} \quad \frac{7}{24} = \frac{1}{24}$

A's wages : B's wages : C's wages $= \frac{1}{6} : \frac{1}{8} : \frac{1}{24} = 4 : 3 : 1$

C's share (for 3 days) $= Rs.[3 \times \frac{1}{24} \times 3200] = Rs.400$

17. Total distance travelled $= [(50 \times 2 \times \frac{1}{2}] + [70 \times 1 \times \frac{1}{2}]$

$= (125 + 105)$ miles

$= 230$ miles

18. Let the required number be x.

Then, $\frac{x}{\sqrt{0.25}}$ $= 25$

$= \frac{x}{0.5} = 25$

$= x = 25 \times 0.5$

$= 12.5$

19. Let d be the common difference of the A.P.

Then $a_3 . a_7 . a_{11}$ $= (22 \quad 4d) . 22 . (22 + 4d)$

$= 88 (121 \quad 4d^2)$

Obviously, R.H.S. is greatest for d = 0

20. Let the labeled price be Rs.x

88% of 80% of x $= 704$

x = $[704 \times 100 \times \frac{100}{88} \times 80]$

$= 1000$

21. Let the present ages of the person be x years.

Then $= 3 (x \quad 3) \quad 3 (x \quad 3)$

x = (3x + 9) (3x 9)

x = 18

22. Here S = {TTT. TTH, THT, HTT, THH, HTH, HHT, HHH}

Let E = event of getting at most two heads.

Then E = {TTT, TTH, THT, HTT, THH, HTH, HHT}

P(E) = $\frac{n(E)}{n(S)}$ — $\frac{7}{8}$

23. The word 'LEADER' contains 6 letters, namely 1L, 2E, 1A, 1D and 1R.

Required number of ways = $\dfrac{6!}{(1!)(2!)(1!)(1!)(1!)}$ = 360

24. Required number
= HCF of (91 − 43), (183 − 91) and (183 − 43)
= HCF of 48, 92 and 140
= 4

25. Total weight increased = (8 x 2.5) kg = 20 kg.
Weight of new person = (65 + 20) kg = 85 kg.

26. Let Arun's weight by X kg.
According to Arun, 65 < X < 72
According to Arun's brother, 60 < X < 70.
According to Arun's mother, X <= 68
The values satisfying all the above conditions are 66, 67 and 68.
Required Average = $[\dfrac{66 + 67 + 68}{3}]$ = $[\dfrac{201}{3}]$ = 67kg.

27. HCF of co-prime numbers is 1.
So, LCM $= \dfrac{117}{1}$
$= 117$

28. Let B's capital be Rs.x. Then, $3500 \times \dfrac{12}{7x} = \dfrac{2}{3}$
14x = 126000
x = 9000

29. There are 6 letters in the given word, out of which there are 3 vowels and 3 consonants.
Let us mark these positions as under:
(1) (2) (3) (4) (5) (6)
Now, 3 vowels can be placed at any of the three places out 4, marked 1, 3, 5
Number of ways of arranging the vowels = $^3P_3$ = 3! = 6
Also, the 3 consonants can be arranged at the remaining 3 positions.
Number of ways of these arrangements = $^3P_3$ = 3! = 6
Total number of ways = (6 × 6) = 36

30. Clearly, n(S) = (6 × 6) = 36
Let E = Event that the sum is a prime number.
Then = {(1, 1), (1, 2), (1, 4), (1, 6), (2, 1), (2, 3), (2, 5), (3, 2), (3, 4), (4, 1), (4, 3), (5, 2), (5, 6), (6, 1), (6, 5)}
n(E) = 15
P(E) = $\dfrac{n(E)}{n(S)} = \dfrac{15}{36} = \dfrac{5}{12}$

31. Let the ages of the children be x, (x + 3), (x + 6), (x + 9) and (x + 12) years.
Then, x + (x + 3) + (x + 6) + (x + 9) + (x + 12) = 50
5x = 20
x = 4
Age of the youngest child = 4 years

32. Therefore, profit $= [\frac{200}{800} \times 100]$%
                                 $= 25$%

33. The two sequences are   17, 21, 25, 29, 33, 37, 41 …. 417
                              16, 21, 26, 31, 36, 41 …. 466
The common terms are 21, 41, 61, 81 …. 381, 401
So, number of terms (which are common) = 20

34. $\sqrt{50} \times \sqrt{98}$ $= \sqrt{50} \times \sqrt{98}$
                           $= \sqrt{4900}$
                           $= 70$

35. Speed $= \frac{200}{24}$ m/sec
                          $= \frac{25}{3}$ m/sec
                          $= \frac{25}{3} \times \frac{18}{5}$) km./hr.
                          = 30 km./hr.

36. Option E
RU, LN, NR, LR

20	18	9	2	21	14	1	12
T	R	I	B	U	N	A	L

37. Option D

D	O	W	N		N	A	M	E
5	@	9	#		#	6	%	3

So,

M	O	D	E
%	@	5	3

38. Option C
Meangingful words – GLUE, LUGE

39. Option C
42W7R8A6Q4 = ?
? = 42 ÷ 7   8 + 6 × 4
= 6   8 + 24
= 30   8 = 22

40. Option A
41. Option C

Number		5	9	1	6	4	8	2	3
In decreasing order	9	8	6	5	4	3	2	1	

42. Option B
43. Option A
PQRST   ABCDE
PQRS   ABCDE
PQRS   ABCD

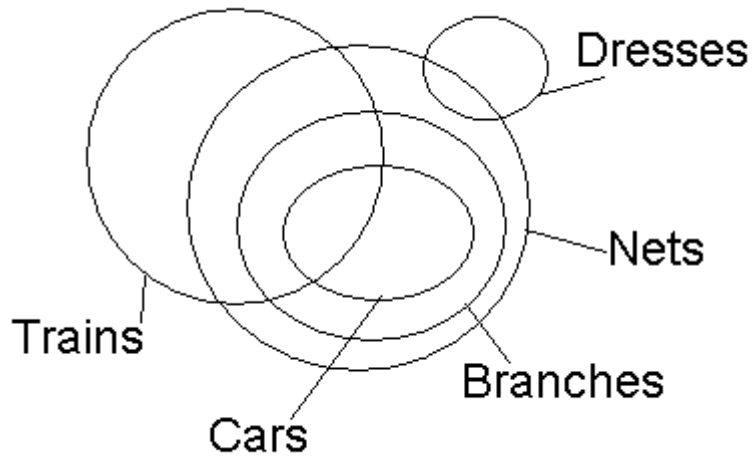PQ**R**

44. Option B
    How can you go   ja da ka pa
    Can you come here   na ka sa ja
    Come and go   ra pa sa
    For word 'here' code is 'na'.

45. Option D
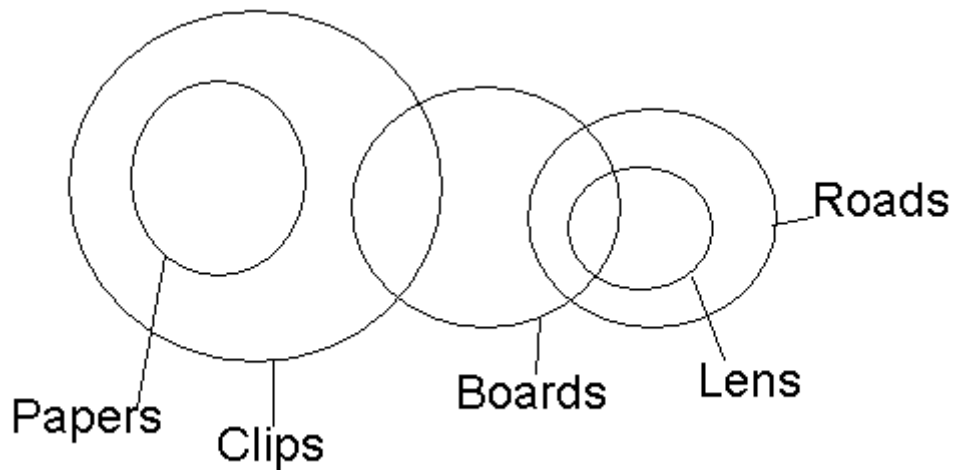46. Option B

Conclusions: I. False
                      II. True
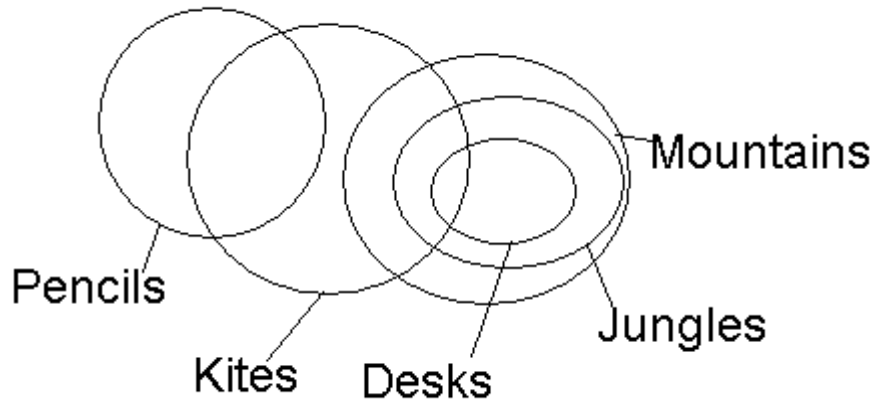   III. True
                      IV. False
So, only II and II follow
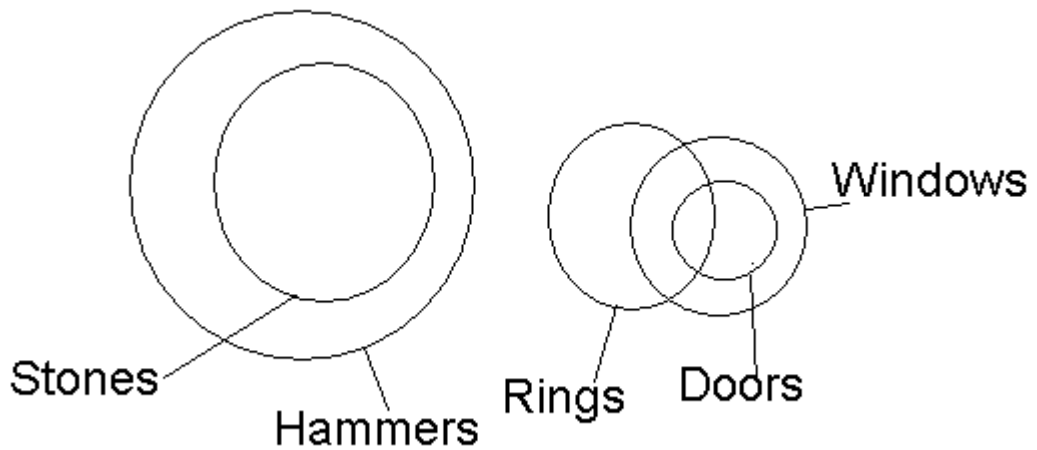
47. Option E

    Conclusions: I. True
                          II. False

III. False
IV. False

48. Option C

Conclusoins: I. False
                II. False
                III. True
                IV. True
So, only III and IV follow
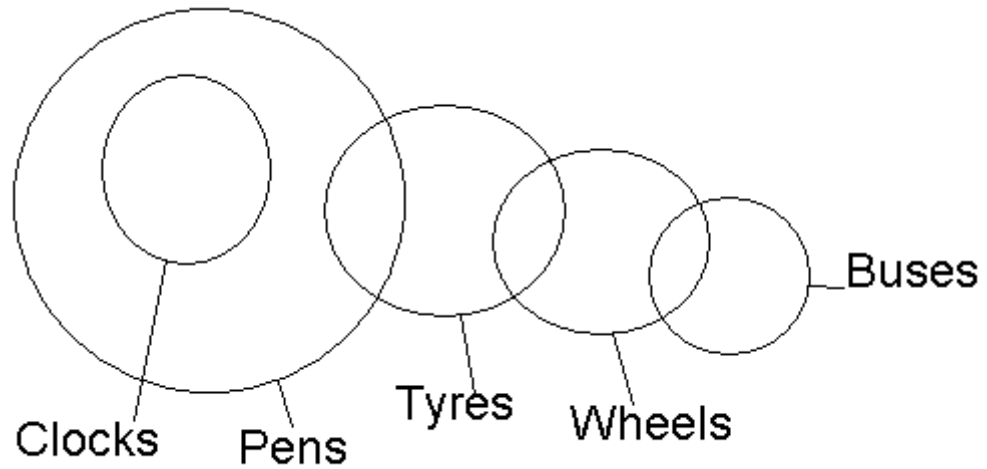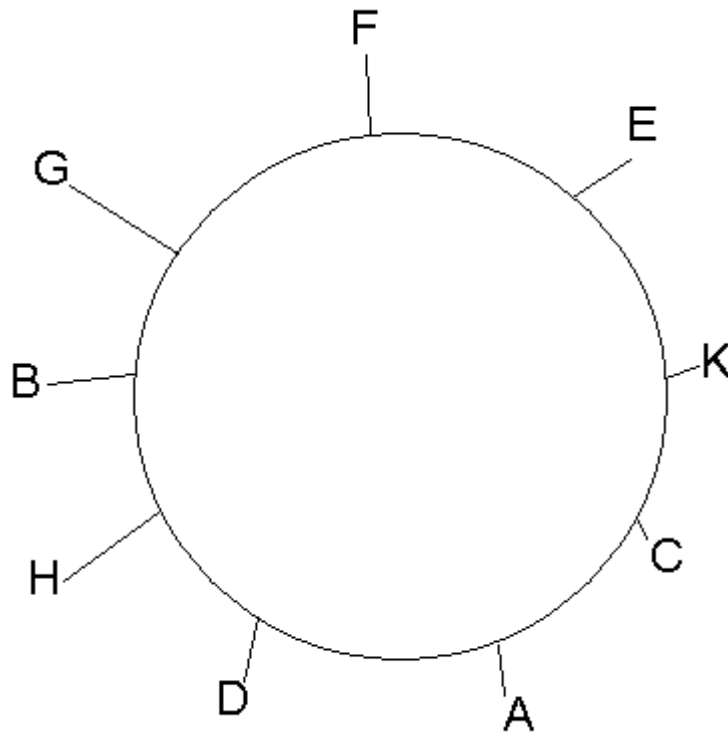
49. Option E

Conclusoins: I. False
                II. True
                III. True
                IV. False
So, either I or II and II follow

50. Option A

Conclusions: I. False
                  II. False
                  III. False
                  IV. True

None follows

51. Option B
52. Option C
53. Option D
54. Option A
55. Option E

56. Option E
57. Option A
58. Option D
59. Option D
60. Option B
61. Option C
62. Option C
63. Option C
64. Option A
65. Option D
66. Option C
   Only assumption (B) is implicit because government has decided means private entities are capable of constructing highways within reasonable time.

67. Option C
   Only assumption (A) and (B) is implicit because if government has urged all the citizens and as a result people will try to follow to save ecosystem.

68. Option C
69. Option A
70. Option B
71. Option C
72. Option B
73. Option B
74. Option A
75. Option B
76. Option A
77. Option B
78. Option A
79. Option D
80. Option E
81. Option C
82. Option D
83. Option B
84. Option D
85. Option A
86. Option A
87. Option A
88. Option C
89. Option C
90. Option A
91. Option D
92. Option A
93. Option C
94. Option B
95. Option E
96. Option A
97. Option C
98. Option D
99. Option D

100.   Option B