



SHAKTHII ACADEMY

Increasing Confidence ; Reaching Goals

SBI PO Prelims Model Paper

\$\$\$ (1-10):

Read the passage carefully and answer the questions given below it. Certain words/phrases have been given in bold to help you locate them while answering some of the questions.

India is poised for an unprecedented growth in infrastructure. The infrastructure outlay in this year's Union Budget alone Rs 2.2 lakh crore. Over the next 5 - 7 years, India will make investments of about \$ 1 trillion in new infrastructure.

This coupled with its commitment to the United Nations of cutting emissions intensity by 33-35% by 2030 from 2005 levels, India will need \$2.5 trillion over the next 15 years. All of this cannot be through public spending. This represents a strong need for scaling up private financing through public private partnership (PPP). However, **headwinds** in the form of regulatory, financial and policy challenges confront PPP today. PPP is an **amorphous** concept and means different things to different stakeholders. Some see it as a way of using private sector capital. But more holistically, PPP is also an opportunity to leverage expertise, experience and efficiency of the private sector to deliver public services and infrastructure with equitable sharing of risk and return. It is more about 'hows' rather than 'whats'.

PPP, with focus on defining output specifications, is a means of purchasing 'services' than only creating assets. While all the three Ps in PPP are important, 'partnership' is **paramount**. Is PPP an innovation of recent vintage? While PPP gained traction in the 1990s, it has existed for ages in forms different from what we see today. India witnessed an early form of PPP in 1853 when the railways were introduced through private initiatives. After the Great Indian Peninsula Railway introduced the first railways near Mumbai, other companies built railways in other parts connecting the major port cities of Calcutta, Madras and Bombay.

Akin to the build-operate-transfer model of PPP, the then government encouraged private investors to set up railways against a guaranteed annual return on capital. The government allowed the companies to acquire land.

While operations remained under the company, government owned the infrastructure. Thereafter, there was a general decline in interest in PPPs and till the 1990s, only **sporadic** attempts were made.

In the post-liberalisation era, India witnessed a spate of PPPs with rising private sector participation in infrastructure. The PPP model got a major **fillip** in 2000 when the then Atal Bihari Vajpayee government ushered in the National Highway

Development Programme. Successive governments have since created a conducive ecosystem for PPPs through the appropriate policy framework and regulations. Today PPP is a vital pillar of infrastructure development. However, PPP projects in India are still affected by various challenges. We are yet to see an independent PPP regulator. There is inadequate rigour in project development and preparatory activities. Challenges of financial closure and lack of institutional capacities to carry out PPP projects exist.

\$\$\$

Q1. What, according to the author, should be done to boost PPP model?



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(A) An independent PPP regulator should be appointed. (B) Every effort should be made to enhance institutional capacities to carry out PPP projects. (C) Awareness programmes to encourage private investors to invest in government schemes should be launched.

- 1) Only A and B
- 2) Only B and C
- 3) Only A and C
- 4) All A, B and C
- 5) Only A

Q2. Which of the following statements with respect to PPP is not correct?

- 1) In PPP the most important element is partnership
- 2) PPP has the same connotation for different stakeholders
- 3) The PPP model got a major boost in 2000 when the then Vajpayee government ushered in the National Highway Development Programme.
- 4) PPP, with focus on defining output specifications, is a means of purchasing 'services' than only creating assets
- 5) None of the above

Q3. What is PPP all about? Answer in the context of the passage.

- 1) PPP is a way of using private sector capital
- 2) It is more about 'hows' rather than 'whats'
- 3) It is an opportunity to leverage expertise, experience and efficiency of the private sector.
- 4) Only 1 and 2
- 5) All 1, 2 and 3

Q4. Why is the author of the view that there is a strong need for increasing private financing through PPP?

(A) Because the previous govt left the country in a financially crippled state and no big project could be set up in a paralysed financial condition. (B) Because over the next five to 7 years, India has to invest about \$ 1 trillion in new infrastructure. (C) To fulfil its commitment to the UN of cutting emissions intensity India will require \$2.5 tn over the next 15 years.

- 1) Only A and B
- 2) Only B and C
- 3) Only A and C
- 4) All A, B and C
- 5) Only C

Q5. What is/are the factors that impede the growth of PPP as of now?

- 1) Regulatory, financial and policy challenge
- 2) Government's antipathy towards PPP model
- 3) Unnecessary intervention of the govt in private affairs
- 4) Only 1 and 2



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5) All 1, 2 and 3

Q6. Choose the word which is **MOST SIMILAR** in meaning to the word printed in bold as used in the passage.

Headwind

- 1) friendly
- 2) unfavourable
- 3) trajectory
- 4) typhoon
- 5) compatible

Q7. Choose the word which is **MOST SIMILAR** in meaning to the word printed in bold as used in the passage.

Sporadic

- 1) constant
- 2) on and off
- 3) common
- 4) dependable
- 5) continuous

Q8. Choose the word which is **MOST SIMILAR** in meaning to the word printed in bold as used in the passage.

Fillip

- 1) retardation
- 2) impediment
- 3) logjam
- 4) boost
- 5) detainment

Q9. Choose the word which is **MOST OPPOSITE** in meaning of the word printed in bold as used in the passage.

Amorphous

- 1) formless
- 2) nebulous
- 3) definite
- 4) vague
- 5) irregular

Q10. Choose the word which is **MOST OPPOSITE** in meaning of the word printed in bold as used in the passage.

Paramount



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- 1) least
- 2) foremost
- 3) outstanding
- 4) chief
- 5) prime

\$\$\$ (11-15):

Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer.

If there is 'No error', the answer is 5). (Ignore errors of punctuation, if any.)

\$\$\$

Q11. /1)/ As far as the choice of eating food of the citizens is / 2)/ concerned the citizens are required to be let alone / 3)/ especially when the food of their choice / 4)/ is not injurious for health. / 5)/ No error

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q12. /1)/ The Supreme Court sought responses from the Centre on a petition that seeks / 2)/ a court-monitored special investigation team / 3)/ to probe the Agusta Westland helicopter deal and / 4)/ registration of FIRs against top Congress leaders. / 5)/ No error

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q13. /1)/ Any sensible person with a reasonable understanding of human behaviour / 2)/ would know that stopping grown-up people / 3)/ from what they like doing is not the best way to prevent them / 4)/ from making a nuisance of them. / 5)/ No error

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q14. /1)/ Born to businessman Prabhat Kumar and teacher / 2)/ Purnima Singh, Rohan's orating skills / 3)/ earned him accolades / 4)/ in different national and state-level competitions. /

- 5)/ No error



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- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q15. /1)/ Vistara and Air Asia will soon be able to fly abroad / 2)/ as all key ministries have supported abolition of/ 3)/ the five-year 20-aircraft rule that airline had to / 4)/ meet before commencing international operations. / 5)/ No error

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

\$\$\$ (16 - 20):

Each question below has two blanks, each blank indicating that something has been omitted. Choose the set of words for each blank that best fits the meaning of the sentence as a whole.

\$\$\$

Q16. On the fiscal _____ there has been some _____ in recent years.

- 1) head, difficulty
- 2) side, perplexity
- 3) policy, hindrance
- 4) front, easing
- 5) count, annoyance

Q17. As West Bengal gears up to vote its next government to _____ we take a closer look at the State's economy and finances under the _____ TMC and compare it to the performance of its predecessor.

- 1) capacity, ruling
- 2) rule, last
- 3) govern, former
- 4) influence, acting
- 5) power, incumbent

Q18. The Kerala Congress Party is _____ as having an amoebic existence - 'splitting to grow, growing to split' is a/an _____ in Kerala politics.

- 1) lampooned, enigma
- 2) ridiculed, problems
- 3) mocked, question
- 4) approved, conundrum



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5) praised, puzzle

Q19. For decades _____ Royal Enfield has been used in the Himalayas by the army and of _____ by enthusiasts and adventurers too.

- 1) over, present
- 2) of, last
- 3) under, now
- 4) of, next
- 5) now, late

Q20. Mexico City is temporarily ordering all cars to remain idle one day in a week in _____ to its worst air-quality _____ in over a decade.

- 1) reaction, situation
- 2) response, crisis
- 3) comeback, disaster
- 4) answer, control
- 5) counter, imbroglio

\$\$\$ (21-25):

Rearrange the following seven sentences (A), (B), (C), (D), (E), (F) and (G) in the proper sequence to form a meaningful paragraph and then answer the questions given below.

- (A) Teaching, particularly school teaching, is not exactly a first-choice career option for most.
- (B) After all, the examiners come from the pool of schoolteachers and I dare say that by and large, that, is not a very distinguished catchment area.
- (C) Let us not overlook the reality of the manner in which the examinations are administered.
- (D) No one replied in affirmation.
- (E) Has anyone, for instance, done an audit of the examiners?
- (F) To confirm this, I asked an assembly of parents in my school how many of them would encourage their son to be a school teacher.
- (G) The reasons for this are manifold.

\$\$\$

Q21. Which of the following should be the **FIRST** sentence after rearrangement?

- 1) A
- 2) G
- 3) B
- 4) C
- 5) D

Q22. Which of the following should be the **SECOND** sentence after rearrangement?

- 1) F
- 2) E



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- 3) D
- 4) A
- 5) C

Q23. Which of the following should be the **THIRD** sentence after rearrangement?

- 1) G
- 2) A
- 3) C
- 4) F
- 5) B

Q24. Which of the following should be the **FOURTH** sentence after rearrangement?

- 1) G
- 2) B
- 3) A
- 4) D
- 5) F

Q25. Which of the following should be the **LAST (SEVENTH)** sentence after rearrangement?

- 1) B
- 2) F
- 3) D
- 4) G
- 5) A

\$\$\$ (26 - 30):

In the following passage, some of the words have been left out, each of which is indicated by a number. Find the suitable word from the options given against each number and fill up the blanks with appropriate words to make the paragraph meaningful.

The Supreme Court has **(26)** down the Telecom Regulatory Authority of India's (Trai) call-drop regulation calling on telcos to pay consumers penalties for dropped calls. The point is not that the court has given telecom operators a carte blanche to **(27)** call quality the way the Chhattisgarh government treats civil rights groups in the state. Rather, the court has **(28)** the arbitrariness in the telecom regulator's order. The licence under which operators offer phone services provide for 2% dropped calls, a large multiple of the actual level of call drops **(29)** and, further, Trai has failed to establish that calls drop only because of operators' **(30)** conduct. This emphatic disapproval of arbitrariness is most welcome.

\$\$\$

Q26. I

- 1) pull
- 2) cut



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- 3) struck
- 4) beat
- 5) hit

Q27. II

- 1) treat
- 2) favour
- 3) bring
- 4) make
- 5) oppose

Q28. III

- 1) hailed
- 2) allowed
- 3) tackled
- 4) nailed
- 5) facilitated

Q29. IV

- 1) accomplished
- 2) experienced
- 3) ignored
- 4) cultivated
- 5) rejected

Q30. V

- 1) perfect
- 2) adequate
- 3) sufficient
- 4) superfluous
- 5) deficient

\$\$\$ (31- 35):

What will come in place of question mark (?) in the following questions?

\$\$\$

Q31. $13784 \div 65 + 67.5\% \text{ of } 348 = (?)^2 - 67.9$

- 1) 324
- 2) 170
- 3) 18
- 4) 189
- 5) 289



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Q32. $(13)^2 - (17)^2 + (15)^2 = ?\%$ of 320 + 12.5% of 200

- 1) 20
- 2) 25
- 3) 15
- 4) 46
- 5) 35

Q33. $5/7$ of 301/86 of 26 = ? \div 1.8

- 1) 117
- 2) 80.5
- 3) 84.5
- 4) 115
- 5) 74.5

Q34. $(29\%$ of 265 + 23% of 435) - (8% of 242 + 6.5% of 190) = ?

- 1) 142.19
- 2) 145.19
- 3) 118.69
- 4) 118.96
- 5) 135.19

Q35. $4 \frac{1}{7} + 3 \frac{2}{7} - 8 \frac{5}{7} + 4 \frac{3}{7} = ?$

- 1) $3 \frac{1}{7}$
- 2) $4 \frac{2}{7}$
- 3) $5 \frac{2}{7}$
- 4) $5 \frac{1}{7}$
- 5) $6 \frac{1}{7}$

Q36. The speed of a boat in still water is 18 kmph and the speed of stream is 3 kmph. It takes a total 11 hours to row upstream from Point X to Point Y and downstream from point Y to Point Z. If the distance from X to Y is one-third the distance between Y and Z. what is the total distance travelled by the boat (both upstream and downstream)?

- 1) 190km
- 2) 180km
- 3) 210km
- 4) 170km
- 5) 105km

Q37. X is thrice as good a workman as Y and is therefore able to finish a piece of work in 16 days less than Y. Find the time in which they can do it working together

- 1) 16 days



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- 2) 8 days
- 3) 24 days
- 4) 12 days
- 5) 6 days

Q38. women earned Rs 143500 by working 25 days. How many men must work for 12 days to receive Rs 70848 provided the daily wages of a man is twice that of a woman?

- 1) 14 men
- 2) 17 men
- 3) 18 men
- 4) 20 men
- 5) None of these

Q39. The average monthly income of a family of five members was Rs 18210. One of the daughters in the family got married and left home, so the average monthly income of family come down to Rs16280. What is the monthly income of the married daughter?

- 1) Rs 25930
- 2) Rs 28930
- 3) Rs 29390
- 4) Rs 27930
- 5) Rs 28830

Q40. Ramcharan invested Rs 16000 at the rate of 10% per annum for one year. If the interest is compounded every six months, what amount will Ramcharan get at the end of the year?

- 1) Rs 39040
- 2) Rs 18840
- 3) Rs 18640
- 4) Rs 17640
- 5) None of these

\$\$\$ (41- 45):

Each of the questions consists of a question followed by three statements. You have to study the question and the statements and decide which of the following statements is/are necessary to answer the question.

\$\$\$

Q41. What is the population of State X?

/I/. After 18% increase the population of State X will become 21.24 lakh /II./The population of state Y is 16.5 lakh. /III/. The ratio of population of State X to that of State Y is 12:11.

- 1) Only I
- 2) Only II and III
- 3) Either only I or II and III



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- 4) All I, II and III
- 5) Only I and III

Q42. How many workers will be required to complete the construction work in 6 days?
/I./ 20% of the work can be completed by 12 workers in 12 days. /II./ 18 workers can complete the work in 40 days. /III./ One-eighth of the work can be completed by 6 workers in 15 days.

- 1) Only II
- 2) Only I
- 3) Only II and III
- 4) Only one of the three
- 5) Only I and II

Q43. What is the area of a hall?

/I./ The material cost of flooring the hall per sq metre is Rs.280. /II./ The labour cost of flooring the hall is Rs 4500. /III./ The total cost of flooring the hall is Rs 18500.

- 1) Only II and III
- 2) Only I and II
- 3) Any two of the three
- 4) All I, II and III
- 5) None of these

Q44. What is the circumference of a semi-circle (in cm)?

/I./ The difference between the length and the breadth of a parallelogram is 10 cm. /II./ The area of the semi-circle is half the area of the parallelogram. /III./ The length of the parallelogram is 2.5 times the radius of the circle.

- 1) Only I and II
- 2) Only I and III
- 3) Only II and III
- 4) The question can't be answered even with the help of I, II and III
- 5) All I, II and III are necessary to answer the question

Q45. An institute employs a manager, an observer and an assistant. What is the monthly salary of an assistant?

/I./ The observer and the assistant together get Rs 38000 per month. /II./ Each observer gets Rs 14000 per month more than an assistant. /III./ The total salary per month of a manager and an observer is Rs 65000.

- 1) Only I and II
- 2) Only II and III
- 3) Only III
- 4) Either I or III
- 5) None of these

\$\$\$ (46 - 50): Study the following table carefully and answer the questions that follow:



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Population abstract of five cities (all the numbers are in thousand)

City	Total population	Population between 25 - 35 years	Employed	Hindi - speaking population
A	4600	300	4100	2800
B	5300	430	3700	3600
C	4900	620	3300	2800
D	5800	408	5200	4900
E	7200	650	6700	6200

\$\$\$

Q46. What per cent population from City B and E together is in the age-group 25-35 years?

- 1) 10.24%
- 2) 11.44%
- 3) 8.64%
- 4) 9.14%
- 5) 18.44%

Q47. What is the difference (in thousand) between the total employed population from Cities C, A and F together and the total unemployed population from these three cities together?

- 1) 10900
- 2) 18900
- 3) 12900
- 4) 11500
- 5) 10390

Q48. What per cent of the total population from City B and City C together is unemployed?

- 1) 23%
- 2) 31.37%
- 3) 22.87%
- 4) 26.73%
- 5) 28.37%

Q49. Out of the total population in all the given cities 45% are women and out of these 30% are married. How many women (in thousand) are unmarried?

- 1) 7442
- 2) 8757
- 3) 8942



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4)9424

5) None of these

Q50. If the ratio of urban to rural population among total population of City E is 5 : 4 and that of City D is 3 : 2, what is the total number of rural population (in thousand) in these two cities?

1) 5140

2) 5420

3) 5840

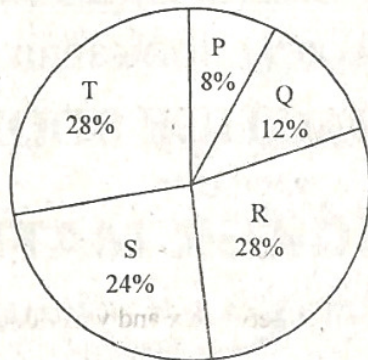
4) 5240

5) 5520

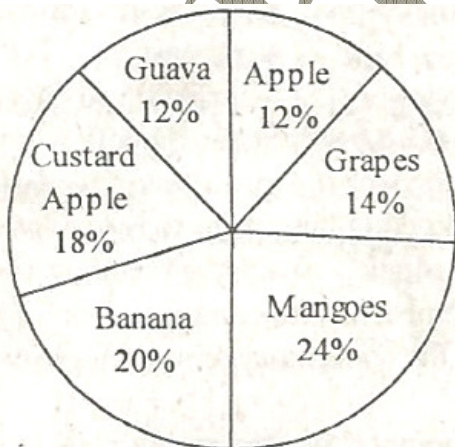
\$\$\$ (51- 55):

Study the following pie-charts carefully and answer the questions given below:

A survey was conducted on 6800 villagers staying in various villages P, Q, R, S and T and having various favourite fruits.



People staying in various villages



Favourite Fruits

\$\$\$



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Q51. What is the total number of people having as Apple or Banana as their favourite fruit?

- 1) 2176
- 2) 2076
- 3) 2482
- 4) 1882
- 5) 1768

Q52. 50% of the people from Village Q have Banana as their favourite fruits. How many people from other villages have the same fruit as their favourite?

- 1) 952
- 2) 1192
- 3) 1052
- 4) 1168
- 5) 1068

Q53. How many people in all have Custard Apple favourite fruit?

- 1) 1204
- 2) 1404
- 3) 1224
- 4) 1040
- 5) None of these

Q54. 28% people from Village S have Grapes as their favourite fruit and 12% of the people from the same village have Mango as their favourite fruit. How many people from that village like other fruits? (Rounded off to the nearest integer value)

- 1) 880
- 2) 1020
- 3) 1120
- 4) 980
- 5) 960

Q55. Mango is the favourite fruit of 50% of the people from Village T. People having their favourite fruit as Mango from village T is approximately what per cent of the people having Mango as their favourite fruit from all the villages together?

- 1) 62%
- 2) 48%
- 3) 52%
- 4) 58%
- 5) None of these

\$\$\$ (56 - 60):

In the given questions two equations numbered I and II are given. You have to



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solve both the equations and mark the appropriate answer.

\$\$\$

Q56. I. $2x^2 - 7x + 6 = 0$ II. $3y^2 - 7y + 4 = 0$

- 1) $x < y$
- 2) $x > y$
- 3) $x \geq y$
- 4) $x \leq y$
- 5) Relationship between x and y can't be established

Q57. I. $12x^2 + 16x = -5$ II. $4y^2 + 13y + 9 = 0$

- 1) $x < y$
- 2) $x \geq y$
- 3) $x > y$
- 4) Relationship between x and y can't be established
- 5) $x \leq y$

Q58. I. $5x^2 + 33x + 40 = 0$ II. $9y^2 + 32y + 15 = 0$

- 1) $x \geq y$
- 2) $x \leq y$
- 3) Relationship between x and y can't be established
- 4) $x < y$
- 5) $x > y$

Q59. I. $x + 3/2x = 5/2$ II. $\sqrt{y} - 3/\sqrt{y} = 0$

- 1) $x \geq y$
- 2) $x < y$
- 3) $x \leq y$
- 4) $x > y$
- 5) Relationship between x and y can't be established

Q60. I. $6x^2 - 13x - 44 = 0$ II. $4y^2 - 17y - 42 = 0$

- 1) $x < y$
- 2) $x > y$
- 3) Relationship between x and y can't be established
- 4) $x \leq y$
- 5) $x \geq y$

\$\$\$ (61- 65):

What should come in place question mark (?) in the following number series?

\$\$\$

Q61. 7, 15, 44, 150, 620, ?



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- 1) 3020
- 2) 3128
- 3) 1820
- 4) 3120
- 5) 2640

Q62. 4, 53, 89, 114, ?, 139, 143

- 1) 122
- 2) 130
- 3) 124
- 4) 121
- 5) 119

Q63. 7, 223, 248, 312, 321, ?

- 1) 330
- 2) 328
- 3) 325
- 4) 322
- 5) 329

Q64. 4, 13, 31, 58, ?, 139, 193

- 1) 94
- 2) 93
- 3) 96
- 4) 98
- 5) 82

Q65. 60, 95, 138, ?, 248, 315, 390

- 1) 188
- 2) 189
- 3) 197
- 4) 209
- 5) 218

\$\$\$ (66 - 70):

Study the following information carefully and answer the questions given below:

Seven friends T, U, V, W, X, Y and Z live on seven different floors of a building, but not necessarily in the same order. The lowermost floor of the building is numbered one, the one above it is number two and so on till the topmost floor is number seven. Each of them also likes a different drink, viz Tea, Coffee, Shikanji, Soup, Soda, Nimbooz and Sharbat, but not necessarily in the same order. T lives immediately above Y and does not like Tea. The one who likes Coffee lives on one of the odd-numbered floors below Y. X lives on one of the floors below U, but does not live on the lowermost floor. There are three persons between U and X



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Only one person lives between U and the one who likes Tea. The one who likes Sharbat lives on one of the even-numbered floors above the one who likes Tea. Only two persons live between Z and the one who likes Tea. The one who likes Soda lives immediately above Z, who does not like Coffee. W lives on one of the floors above V. Only one person lives between the one who likes Shikanji and the one who likes Soup, W does not like Shikanji. Z does not like Nimbooz.

\$\$\$

Q66. Who among the following likes Sharbat?

- 1) U
- 2) T
- 3) X
- 4) Y
- 5) None of these

Q67. How many persons live between the one who likes Coffee and the one who likes Soup?

- 1) None
- 2) Three
- 3) Two
- 4) Can't be determined
- 5) None of these

Q68. U likes which of the following drinks?

- 1) Nimbooz
- 2) Tea
- 3) Soda
- 4) Sharbat
- 5) None of these

Q69. Who among the following likes Soup?

- 1) W
- 2) Y
- 3) T
- 4) X
- 5) None of these

Q70. Which of the following statements is/are true?

- 1) U likes Tea
- 2) W lives on the fifth floor
- 3) X likes Soda and lives on the third floor
- 4) Only 1 and 2 are true
- 5) None of these



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\$\$\$ (71-73):

Study the following information carefully and answer the questions given below:

Q is married to V. P is daughter of V. N is son of E. G is mother-in-law of E. V is brother of G S is son of R, who is married to G
\$\$\$

Q71. How is S related to N?

- 1) Sister
- 2) Father
- 3) Mother
- 4) Grandfather
- 5) None of these

Q72. How is P related to G?

- 1) Nephew
- 2) Aunt
- 3) Niece
- 4) Father
- 5) None of these

Q73. What is the relation between V and R?

- 1) Brother
- 2) Sister-in-law
- 3) Sister
- 4) Brother-in-law
- 5) None of these

\$\$\$ (74 -78):

In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer

- 1) if only conclusion I is true
- 2) if only conclusion II is true
- 3) if either conclusion I or II is true
- 4) if neither conclusion I nor II is true
- 5) if both conclusion I and II are true

\$\$\$

Q74. **Statements:** $C \geq P = Q \geq T$, $R > C$, $S = T$ **Conclusions:** I. $R > Q$ II. $P \geq S$

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5



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Q75. **Statements:** $B \leq N < K = L, M = T \geq N$ **Conclusions:** I. $L \leq M$ II. $T \geq B$

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q76. **Statements:** $W > D = E \geq J = A, U = D, J \leq R$ **Conclusions:** I. $R \geq E$ II. $U > A$

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q77. **Statements:** $V > X \leq H < R, L \geq I, P \geq Q = V$ **Conclusions:** I. $P > X$ II. $I \leq Q$

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q78. **Statements:** $S \geq T = U \leq W < Z, K > L > M = Z$ **Conclusions:** I. $K > T$ II. $U < M$

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

\$\$\$ (79 - 80):

Study the following information carefully and answer the questions given below:

Point U is to the west of Point T, which is 20m to the south of Point S. Point V is 20m to the north of Point U and in line with Q and S. Point S is 30m to the east of Point Q and R is 20m to the south of Point Q. The distance between point R and point U is 25m.

\$\$\$

Q79. What is the distance between point S and V?

- 1) 40m
- 2) 30m
- 3) 55m
- 4) 50m
- 5) None of these



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Q80. S is in which direction with respect to U?

- 1) South
- 2) Northeast
- 3) East
- 4) Southwest
- 5) None of these

\$\$\$ (81- 85):

Study the following information carefully and answer the questions given below:

In a certain code language 'they are three persons' is written as 'po te lp jk' 'all are the member' is written as 'cs po cl mb', 'member of the committee' is written as 'hy cs mb re' and 'all the committee persons' is written as 'hy jk cs cl'.

\$\$\$

Q81. How is 'member' written in that code language?

- 1) hy
- 2) jk
- 3) mb
- 4) po
- 5) None of these

Q82. What may be the possible code for 'they all member' in the given code language?

- 1) re mb cs
- 2) te cl mb
- 3) mb po cl
- 4) Can't be determined
- 5) None of these

Q83. 'mb jk' is the code for which of the following?

- 1) member persons
- 2) are all
- 3) they are
- 4) the committee
- 5) None of these

Q84. What does 'hy' stand for in the given code language?

- 1) three
- 2) persons
- 3) member
- 4) Can't be determined
- 5) None of these

Q85. What is the code for 'they' in the given code language?



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- 1) te
- 2) lp
- 3) jk
- 4) Either 1 or 2
- 5) None of these

\$\$\$ (86 - 90):

Study the following information carefully and answer the questions given below:

Eight friends A, B, C, D, E, F, G and H are sitting in a circle in such a way that three of them are not facing the centre while the rest are facing the centre. The persons facing outward are not adjacent to each other. D is second to the left of F and third to the right of E, who is facing the centre. B is third to the left of G and faces outside. G is third to the left of A, who is not an immediate neighbour of E or F. E is second to the left of H, who is not facing the centre.

\$\$\$

Q86. Which of the following groups is not facing the centre?

- 1) E, C, H
- 2) H, B, C
- 3) B, C, A
- 4) F, C, A
- 5) None of these

Q87. Who among the following sits third to the right of A?

- 1) G
- 2) B
- 3) F
- 4) H
- 5) None of these

Q88. Who among the following sits second to the right of B?

- 1) A
- 2) C
- 3) H
- 4) F
- 5) None of these

Q89. What is the position of E with respect to F?

- 1) Fifth to the left
- 2) Third to the left
- 3) Immediate right
- 4) Third to the right
- 5) None of these



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Q90. Four of the following five are alike in a certain way and hence form a group. Which is the one that does not belong to that group?

- 1) A,C
- 2) G, H
- 3) D,B
- 4) F,B
- 5) D,G

\$\$\$ (91- 95):

In each question below are given three statements followed by two conclusions numbered I and II. You have to take the given statements to be true even if they seem to be at variance with 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. Give answer

- 1) if only conclusion I follows.
- 2) if only conclusion II follows.
- 3) if either conclusion I or II follows.
- 4) if neither conclusion I nor II follows.
- 5) if both conclusion I and II follow.

\$\$\$

Q91. **Statements:** Some keys are buttons. Some locks are not buttons. All locks are clocks.
Conclusions: I. Some clocks are not buttons. II. Some locks are keys.

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q92. **Statements:** Some rings are bangles. All bangles are pins. No box is a ring.
Conclusions: I. Some bangles are boxes. II. No ring is a box.

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q93. **Statements:** All months are years. No year is a week. Some days are months.
Conclusions: I. No month is a week. II. All days being years is a possibility.

- 1) 1
- 2) 2
- 3) 3
- 4) 4



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5) 5

Q94. **Statements:** No page is a pen. Some papers are covers. No cover is a pen.

Conclusions: I. No pen is cover. II. All covers are not pages.

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

Q95. **Statements:** No page is a pen. Some papers are covers. No cover is a pen.

Conclusions: I. Some pens are pages. II. At least some papers are not pens.

- 1) 1
- 2) 2
- 3) 3
- 4) 4
- 5) 5

\$\$\$ (96 - 100):

Study the following information carefully and answer the questions given below:

A, B, C, D, E, F, G and H are sitting in a straight line facing north, but not necessarily in the same order. A sits third to the left of C and second to the right of E. B sits second to the right of D, who is not an immediate neighbour of E. H sits second to the left of F. G is not an immediate neighbour of D. G sits second to the left of H, who is not an immediate neighbour of F.

\$\$\$

Q96. Which of the following pairs are immediate neighbours?

- 1) C, D
- 2) F, C
- 3) B, G
- 4) H, G
- 5) None of these

Q97. Who among the following sits exactly between G and H?

- 1) C
- 2) F
- 3) E
- 4) A
- 5) None of these



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Q98. Who among the following sits third to the left of D?

- 1) H
- 2) A
- 3) B
- 4) E
- 5) None of these

Q99. Which of the following pairs sit on the extreme ends of the line?

- 1) F, H
- 2) D, B
- 3) H, D
- 4) B, G
- 5) None of these

Q100. Who among the following is fourth to the right of A?

- 1) B
- 2) D
- 3) G
- 4) F
- 5) None of these

---Answer---

A1.1	A21.4	A41.3
A2.2	A22.2	A42.4
A3.5	A23.5	A43.4
A4.2	A24.1	A44.4
A5.1	A25.3	A45.1
A6.2	A26.3	A46.2
A7.2	A27.1	A47.4
A8.4	A28.4	A48.2
A9.3	A29.2	A49.2
A10.1	A30.5	A50.5
A11.4	A31.3	A51.1
A12.5	A32.2	A52.1
A13.4	A33.1	A53.2
A14.2	A34.2	A54.4
A15.3	A35.1	A55.4
A16.4	A36.3	A56.2
A17.5	A37.5	A57.3
A18.1	A38.3	A58.3
A19.5	A39.1	A59.2
A20.2	A40.4	A60.3



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A61.4	A75.2	A89.4
A62.2	A76.4	A90.5
A63.5	A77.1	A91.4
A64.1	A78.5	A92.2
A65.2	A79.3	A93.5
A66.2	A80.2	A94.1
A67.3	A81.3	A95.2
A68.1	A82.2	A96.1
A69.1	A83.1	A97.3
A70.3	A84.5	A98.1
A71.2	A85.4	A99.4
A72.3	A86.2	A100.1
A73.4	A87.3	
A74.5	A88.1	

---Answer---

---Explanation---

E11. Replace 'for' with 'to'

E13. Replace 'them' with 'themselves'

E14. Replace 'orating' with 'oratory'

E15. Replace 'airline' with 'airlines'

$$\begin{aligned} E31. (?)^2 - 67.9 &= 1378 \div 65 + 67.5 \times 348/100 \\ &= 21.2 + 234.9 = 256.1 \\ \text{or, } (?)^2 &= 256.1 + 67.9 = 324 \\ \therefore ? &= \sqrt{324} = 18 \end{aligned}$$

$$\begin{aligned} E32. ? \times 320/100 &= 169 - 289 + 225 - 12.5\% \text{ of } 200 = 105 - 25 \\ \therefore ? &= 80 \times 100/320 = 80 \times 100/320 = 25 \end{aligned}$$

$$\begin{aligned} E33. ? \div 1.8 &= 5/7 \times 301/86 \times 26 = 65 \\ \therefore ? &= 65 \times 1.8 = 117 \end{aligned}$$

$$\begin{aligned} E34. ? - (29 \times 2.65 + 23 \times 4.35) - (8 \times 2.42 + 6.5 \times 1.90) &= (76.85 + 100.05) - (19.36 + 12.35) = \\ (176.9 - 31.71) &= 145.19 \end{aligned}$$



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$$\begin{aligned} \text{E35. } ? &= (4 + 3 + 4 - 8) + (1/7 + 2/7 - 5/7 + 3/7) \\ &= 3 + (1 + 2 + 3 - 5/7) = 3 \frac{1}{7} \end{aligned}$$

$$\begin{aligned} \text{E36. Upstream speed} &= (18 - 3) = 15 \text{ kmph} \\ \text{Downstream speed} &= (18 + 3) = 21 \text{ kmph} \\ \text{Let the distance between Y to Z be } D \text{ km} \\ \text{Then, distance from X to Y} &= D/3 \text{ km.} \\ \text{Now, } D/3 \times 15 + D/21 &= 11 \quad \text{or, } D/45 + D/21 = 11 \\ \text{or, } 7D + 15D / 315 &= 11 \quad \text{or, } 22D = 11 \times 315 \\ \therefore D &= 11 \times 315/22 = 0.5 \times 315 = 157.5 \text{ km} \\ \therefore \text{Distance between X to Y} &= 157.5 \times 1/3 = 52.5 \text{ km} \\ \therefore \text{Total distance} &= 157.5 + 52.5 = 210 \text{ km} \end{aligned}$$

$$\begin{aligned} \text{E37. Ratio of work done by X to Y in the same time} &= 3 : 1 \\ \text{Ratio of time taken by X to Y} &= 1 : 3 \\ \text{Let Y takes } d \text{ days to finish a work'.} \\ \text{Then, X takes } (d - 16) \text{ days to finish it.} \\ \therefore d - 16/d &= 1/3 \\ \text{Or, } 3d - 48 &= d \text{ or, } 2d = 48 \\ \therefore d &= 24 \\ \therefore \text{X takes } (24 - 16) &= 8 \text{ days} \\ \text{Now, } (X + Y)'s \text{ 1 day's work} \\ &= 1/8 + 1/24 = 3 + 1/24 = 1/6 \\ \text{So, both together finish the work in } &6 \text{ days.} \end{aligned}$$

$$\begin{aligned} \text{E38. Wages of a woman for one day} &= 143500/25 \times 35 = \text{Rs } 164 \\ \text{Thus, wages of a man for one day} &= 2 \times 164 = \text{Rs } 328 \\ \text{Now, the number of men} &= \text{Total wages/No. of days} \times 1 \text{ man's 1 day's wages} \\ &= 70848/12 \times 328 \\ &= 18 \text{ men} \end{aligned}$$

$$\begin{aligned} \text{E39. Total monthly income of the family} &= 18210 \times 5 = \text{Rs } 91050 \\ \text{Total monthly income of the family after the marriage of the daughter} &= \text{Rs } (16280 \times 4) \\ &= \text{Rs } 65120 \\ \therefore \text{Monthly income of the daughter} &= 91050 - 65120 = \text{Rs } 25930 \end{aligned}$$

$$\begin{aligned} \text{E40. Interest is compounded half-yearly.} \\ \text{Hence, rate of interest} &= 10/2 = 5\% \\ \text{Time} &= 2 \end{aligned}$$



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$$\begin{aligned}\therefore \text{Amount} &= 16000(1 + 5/100)^2 \\ &= 16000 \times 21/20 \times 21/20 = 40 \times 441 = \text{Rs } 17640\end{aligned}$$

E41. **From I.** Population of State X
= $21.24 \times 100/118 = 18$ lakh
From II and III. Population of State X
= $12/11 \times 16.5 = 1.5 \times 12 = 18$ lakh
Hence either only I or II and III

E42. **From I.** $1/5$ of work is completed by 12 workers in 12 days.
 \therefore 12 workers can complete the work in 60 days.
 \therefore In 60 days the work will be completed by 12 workers
 \therefore In 6 days the work will be completed by $12 \times 60/6 = 120$ workers
From II. 18 workers can complete the work in 40 days.
 \therefore In 40 days the work will be completed by 18 workers.
 \therefore In 6 days the work will be completed by $18 \times 40/6 = 120$ workers
From III. 6 workers can complete the work in $15 \times 8 = 120$ days
 \therefore In 120 days the work will be completed by 6 workers
 \therefore In 6 days the work will be completed by $6 \times 120/6 = 120$ workers
Hence with the help of any of the three statements we can find the no. of workers.

E43. Let the area of the hall be x sq m.
From 1, II and III, we get
Total material cost = Rs $280x$
Labour cost = $280x + 4500 = 18500$
or, $280x = 18500 - 4500 = 14000$
 $\therefore x = 14000/280 = 500$ sq m

E44. **From I.** Let the length be x cm
Then, breadth = y cm
Then, $x - y = 10$ cm
From II. Area of semi-circle
= Area of parallelogram/2 = $b \times h/2$
From III. Length of the parallelogram = $2.5 \times$ radius of circle
So, we can't find the area of the semi-circle even with the help of all three statements.

E45. **From statement I.**



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Observer + Assistant = Rs 38000

From II. Observer = Assistant + Rs 14000

From III. Manager + Observer = Rs 65000

Now, **from I and II.**

Assistant + 14000 + Assistant = 38000

\therefore Assistant = $38000 - 14000/2 = 24000/2 =$ Rs 12000

Hence only I and II are sufficient to answer the question.

E46. Reqd % = $430 + 650/5300 + 7200 \times 100 = 1080/12500 \times 100 = 8.64\%$

E47. Total employed population = $3300 + 4100 + 6700 = 14100$ thousand

Total unemployed population = $1600 + 500 + 500 = 2600$ thousand

\therefore Difference = $14100 - 2600 = 11500$ thousand

E48. Total unemployed population from cities B and C together = $1600 + 1600 = 3200$

\therefore Reqd% = $3200/5300 + 4900 \times 100$

= $3200/10200 \times 100 = 3200/102\% = 31.37\%$

E49. Total female population

= $(4600 + 5300 + 4900 + 5800 + 7200) \times 45/100 = 27800/100 \times 45$

= 12510 thousand

\therefore Unmarried women = $(100 - 30) = 70\%$

$\therefore 125100 \times 70/100 = 8757$ thousand

E50. Rural population of City E = $4/9 \times 7200 = 3200$ thousand

Rural population of City D = $2/5 \times 5800 = 2320$

\therefore Total rural population = $3200 + 2320 = 5520$ thousand

E51. Population of Village P = $8 \times 6800 / 100 = 544$

Population of Village Q = $12 \times 6800/100 = 816$

Population of Village R = $28 \times 6800/100 = 1904$

Population of Village S = $24 \times 6800/100 = 1632$

Population of Village T = $28 \times 6800/100 = 1904$

E51. Number of people who like Apple or Banana = $(12 + 20)\%$ of 6800 = $32 \times 6800/100 = 2176$



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E52. No. of people from all villages who like Banana = $20 \times 6800/100 = 1360$

Number of people from Village Q who like Banana = $50/100 \times 816 = 408$

Hence the number of people from other villages who likes Banana = $1360 - 408 = 952$

E53. No. of people who like Custard Apple = $18 \times 6800/100 = 1224$

E54. Percentage of people having liking for Grapes or Mango from Villages S = $28 + 12 = 40\%$

Hence the number of people who like other fruits = $60 \times 1632 / 100 \approx 980$

E55. Number of people having liking for Mango from all the villages

= $24 \times 6800/100 = 1632$

= 1632

Number of people having liking for Mangoes from the village T = $50/100 \times 1904 = 952$

\therefore Reqd % = $952/1632 \times 100 = 58.33\% \approx 58\%$

E56. I. $2x^2 - 7x + 6 = 0$

or, $2x^2 - 4x - 3x + 6 = 0$

or, $2x(x - 2) - 3(x - 2) = 0$

or, $(2x - 3)(x - 2) = 0$

$\therefore x = 3/2, 2$

II. $3y^2 - 7y + 4 = 0$

or, $3y^2 - 3y - 4y + 4 = 0$

or, $3y(y - 1) - 4(y - 1) = 0$

or, $(3y - 4)(y - 1) = 0$

$\therefore y = 4/3, 1$

Hence $x > y$

E57. I. $12x^2 + 16x + 5 = 0$

or, $12x^2 + 10x + 6x + 5 = 0$

or, $2x(6x + 5) + 1(6x + 5) = 0$

or, $(2x + 1)(6x + 5) = 0$

$\therefore x = -1/2, -5/6$

II. $4y^2 + 13y + 9 = 0$

or, $4y^2 + 4y + 9y + 9 = 0$

or, $4y(y + 1) + 9(y + 1) = 0$



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$$\text{or, } (4y + 9)(y + 1) = 0$$

$$\therefore y = -9/4, -1$$

Hence $x > y$

$$\text{E58. I. } 5x^2 + 33x + 40 = 0$$

$$\text{or, } 5x^2 + 25x + 8x + 40 = 0$$

$$\text{or, } 5x(x + 5) + 8(x + 5) = 0$$

$$\text{or, } (5x + 8)(x + 5) = 0$$

$$\therefore x = -8/5, -5$$

$$\text{II. } 9y^2 + 32y + 15 = 0$$

$$\text{or, } 9y^2 + 27y + 5y + 15 = 0$$

$$\text{or, } 9y(y + 3) + 5(y + 3) = 0$$

$$\text{or, } (9y + 5)(y + 3) = 0$$

$$y = -5/9, -3$$

Hence relation can't be established.

$$\text{E59. } x + 3/2x = 5/2$$

$$\text{or, } 2x^2 + 3 = 5x$$

$$\text{or, } 2x^2 - 5x + 3 = 0$$

$$\text{or, } 2x^2 - 2x - 3x + 3 = 0$$

$$\text{or, } 2x(x - 1) - 3(x - 1) = 0$$

$$\text{or, } (2x - 3)(x - 1) = 0$$

$$\therefore x = 1, 3/2$$

$$\text{II. } \sqrt{y} - 3/\sqrt{y} = 0$$

$$\text{Or, } y = 3$$

Hence $x < y$

$$\text{E60. I. } 6x^2 - 13x - 44 = 0$$

$$\text{or, } 6x^2 - 24x + 11x - 44 = 0$$

$$\text{or, } 6x(x - 4) + 11(x - 4) = 0$$

$$\text{or, } (6x + 11)(x - 4) = 0$$

$$\therefore x = 4, -11/6$$

$$\text{II. } 4y^2 - 17y - 42 = 0$$

$$\text{or, } 4y^2 - 24y + 7y - 42 = 0$$

$$\text{or, } 4y(y - 6) + (y - 6) = 0$$

$$\text{or, } (4y + 7)(y - 6) = 0$$

$$\therefore y = 6, -7/4$$

Hence relation can't be established.



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E61. The pattern is $7 \times 1 + 1 \times 8 = 15$, $15 \times 2 + 2 \times 7 = 44$, $44 \times 3 + 3 \times 6 = 150$, $150 \times 4 + 4 \times 5 = 620$, $620 \times 5 + 5 \times 4 = \mathbf{3120}$,

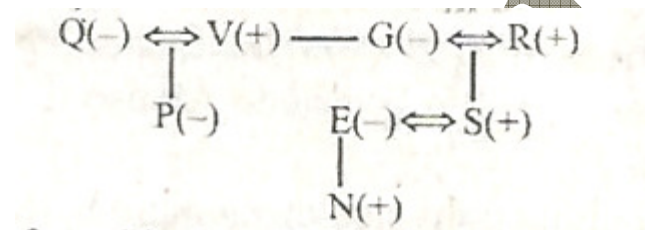
E62. The pattern is $4 + 7^2 = 53$, $53 + 6^2 = 89$, $89 + 5^2 = 114$, $114 + 4^2 = \mathbf{130}$, $130 + 3^2 = 139$, $139 + 2^2 = 143$

E63. The pattern is $7 + 6^3 = 223$, $223 + 5^2 = 248$, $248 + 4^3 = 312$, $312 + 3^2 = 321$, $321 + 2^3 = \mathbf{329}$

E64. The pattern is $4 + 1 \times 3^2 = 13$, $13 + 2 \times 3^2 = 31$, $31 + 3 \times 3^2 = 58$, $58 + 4 \times 3^2 = \mathbf{94}$, $94 + 5 \times 3^2 = 139$, $139 + 6 \times 3^2 = 193$,

E65. The pattern is $60 + 35 = 95$, $95 + 43 = 138$, $138 + 51 = \mathbf{189}$, $189 + 59 = 248$, $248 + 67 = 315$, $315 + 75 = 390$

E71.



E74. Given statements:

$$C \geq P = Q \geq T \dots (i)$$

$$R > C \dots (ii)$$

$$S = T \dots (ii)$$

Combining all these statements, we get

$$R > C \geq P = Q \geq T = S$$

Thus, $R > Q$ is true. Again, $P \geq S$ is true.

E75. Given statements:

$$B \leq N < K = L \dots (i)$$

$$M = T \geq N \dots (ii)$$

Combining both statements, we get

$$B \leq N \leq T = M \text{ and } M = T \geq N < K = L$$



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We can't compare L and M. Hence I ($L \leq M$) is not true. Again, $B \leq T$ or $T \geq B$ is true.

E76. Given statements:

$$W > D = E \geq J = A \dots (i)$$

$$U = D \dots (ii)$$

$$J \leq R \dots (iii)$$

Combining all these statements, we get

$$W > U = D = E \geq J = A \leq R$$

We can't compare R and E and $U \geq A$. Hence neither I ($R \geq E$) nor II ($U > A$) is true.

E77. Given statements:

$$V > X \leq H < R = L \geq I \dots (i)$$

$$P \geq Q = V \dots (ii)$$

Combining both statements, we get

$$P \geq Q = V > X \leq H < R = L \geq I$$

Thus, $P > X$ is true.

Again, we can't compare Q and I. Hence II ($I \leq Q$) is not true.

E78. Given statements:

$$S \geq T = U \leq W < Z$$

$$K > L > M = Z$$

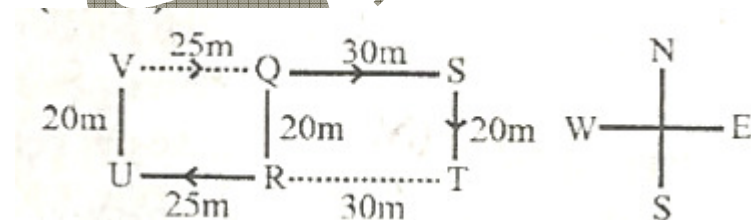
Combining both statements, we get

$$S \geq T = U \leq W < Z = M < L < K$$

Thus, $K > T$ is true.

Again, $U < M$ is true.

E79.



$$E79. SV = VQ + SQ = 25 + 30 = 55m$$

E80. Northeast



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E81. they are three persons → po te dp jk ... (i)

all are the member → cs po cl mb ... (ii)

member of the committee → hy cs mb re ... (iii)

all the committee persons → hy jk cs cl ... (iv)

From (i) and (ii), are → po ... (v)

From (i) and (iv), persons → jk ... (vi)

From (i), (v) and (vi),
they/three → te/lp ... (vii)

From (ii), (iii) and (iv), the → cs ... (viii)

From (ii), (viii) and (iii), member → mb ... (ix)

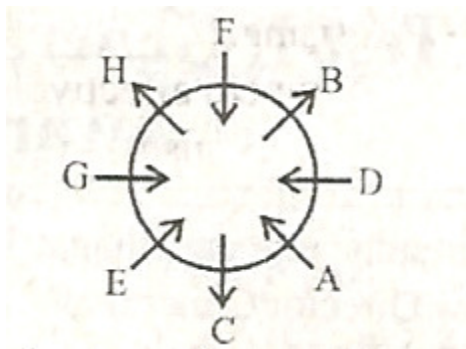
From (ii), (iv) and (viii), all → cl ... (x)

From (iii), (viii) and (iv), committee → hy .. (xi)

From (iii), (viii), (ix) and (xi), of → re ... (xii)

E84. committee

E86.



E91. All locks are clocks (A) → conversion → Some clocks are locks (I) + Some locks are not buttons (O) = I + O = No conclusions. Hence conclusion I does not follow.
Some locks are not buttons (O) + (Some keys are buttons → conversion →)Some buttons are keys (I) = O + I = No conclusion. Hence conclusion II does not follow.

E92. No box is a ring (E) + Some rings are bangles (I) = E + I = O* = Some bangles are not boxes. Hence conclusion I does not follow.

No box is a ring (E) → conversion → No ring is a box. Hence conclusion II follows.



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E93. All months are years (A) + No year is a week (E) = A + E = E = No month is a week.
Hence conclusion I follows.

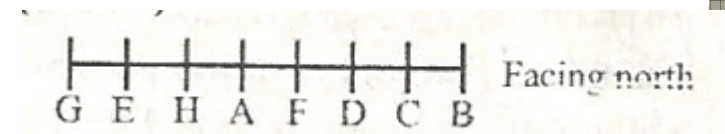
But, the possibility between days and years can exist. Hence conclusion II follows.

E94. No cover is a pen (E) → conversion → No pen is a cover (E). Hence conclusion I follows.
No page is a pen (E) + No pen is a cover (E) = E + E = No conclusions. Hence conclusion II does not follow.

E95. No page is a pen (E) → conversion → No pen is a page (E). Hence conclusion I does not follow.

Again, Some papers are covers (I) + No cover is a pen (E) = I + E = O = Some papers are not pens. Hence conclusion II follows.

E96.



---Explanation---

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