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# **IBPS RRB PO/Officer Assistant Scale I – Model paper 1**

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# IBPS RRB PO/Officer Assistant Scale I – Model paper 1

D.1-5) Find the missing (?) number:

Q.1) 24, 73, 221, 666, ?, 6011

- a) 1002
- b) 1298
- c) 2002
- d) 3010
- e) 3505

Q.2) 81, ?, 105, 122, 145, 176

- a) 98
- b) 85
- c) 100
- d) 92
- e) 82

Q.3) 7, 11, 23, 59.5, 182.5, ?

- a) 234.5
- b) 320.25
- c) 540.5
- d) 412.25
- e) 646.75

Q.4) 91, 105, 143, 205, ?, 401,

- a) 212
- b) 291
- c) 314
- d) 242
- e) 344

Q.5) 2, 5, 13, ?, 271, 1631

- a) 121
- b) 83
- c) 55
- d) 162
- e) 92

D.6-10) Study the following table and answer the given questions:

The table shows the number of employees working in different banks and different posts (Clerk and officer)

| Bank's Name | Total number of | Percentage of | Number of officers |
|-------------|-----------------|---------------|--------------------|
|-------------|-----------------|---------------|--------------------|

|   | employees | female clerical employees |     |
|---|-----------|---------------------------|-----|
| A | 1350      | 30                        | 650 |
| B | 2750      | 46                        | 900 |
| C | 1400      | 24                        | 500 |
| D | 1800      | 55                        | 740 |
| E | 1150      | 65                        | 630 |
| F | 2100      | 36                        | 850 |

Q.6) Which bank has the maximum number of male clerks?

- a) Bank A
- b) Bank C
- c) Bank D
- d) Bank B
- e) Bank F

Q.7) What is the difference between the total number of officers in all banks together and the number of male clerks in Bank A, B, D and F together.

- a) 1678
- b) 1523
- c) 1499
- d) 1372
- e) 1504

Q.8) If 25% of officers working in bank D are females, then the number of female clerks working in bank A is what percentage of the number of male officers working in bank D?

- a) 37.84%
- b) 41.43%
- c) 32.43%
- d) 53.64%
- e) 47.57%

Q.9) Average number of female clerks working in bank B, C and D is what percentage of the number of employees working in bank A and E together.

- a) 18%
- b) 22%
- c) 37%
- d) 26%
- e) 31%

Q.10) The number of male clerks in banks B and D together is what percentage of the number of female clerks in banks C and F together?(approximately)

- a) 190%
- b) 220%
- c) 222%
- d) 198%
- e) 218%

D.11-15) What value should come in place of question mark (?) in the following equations?

Q.11)  $238.5 + 28^2 \div \sqrt[3]{512} - 156.3 = ? + 22.2$

- a) 123  
b) 158  
c) 168  
d) 193  
e) 201

Q.12)  $24 \times 86 + 98 - 188 \div 4 = ?$

- a) 2115  
b) 3129  
c) 1090  
d) 3901  
e) 2091

Q.13)  $24\% \text{ of } 5460 + 15\% \text{ of } 9995 + 287 = ?$

- a) 3908.53  
b) 3095.54  
c) 3096.65  
d) 3920.23  
e) 3298.32

Q.14)  $87932 + 49230 - 39239 + 3292 - 9281 - 23123 + 12 = ?$

- a) 68879  
b) 48920  
c) 67053  
d) 68823  
e) 68738

Q.15)  $\frac{78 \times 184 \times 33}{\sqrt[2]{529} \times \sqrt[3]{2197}} = ?$

- a) 1783  
b) 2189  
c) 1893  
d) 1839  
e) 1584

D.16-20) In the following two equations are given I and II. By solving those equations give corresponding answer.

Q.16) I.  $2x^2 + 4x - 16 = 0$

II.  $3y^2 - 11y - 42 = 0$

- a)  $x > y$   
b)  $x \leq y$   
c)  $x = y$  (or) relationship cannot be determined.  
d)  $y > x$   
e)  $x \geq y$

Q.17) I.  $24x^2 + 18x + 3 = 0$

II.  $26y^2 + 19y + 3 = 0$

- a)  $x > y$   
b)  $x \leq y$   
c)  $y > x$   
d)  $x \geq y$

e)  $x = y$  (or) relationship cannot be determined.

Q.18) I.  $11x + x^2 + 18 = 0$

II.  $3y + y^2 - 54 = 0$

a)  $x > y$

b)  $x = y$  (or) relationship cannot be determined.

c)  $x \leq y$

d)  $y > x$

e)  $x \geq y$

Q.19) I.  $5x + y - 5 = 0$

II.  $3x - 3y - 21 = 0$

a)  $x > y$

b)  $x \leq y$

c)  $y > x$

d)  $x = y$  (or) relationship cannot be determined.

e)  $x \geq y$

Q.20) I.  $2x^2 + 6 = 7x$

II.  $3y^2 + 21 = 16y$

a)  $x > y$

b)  $x \leq y$

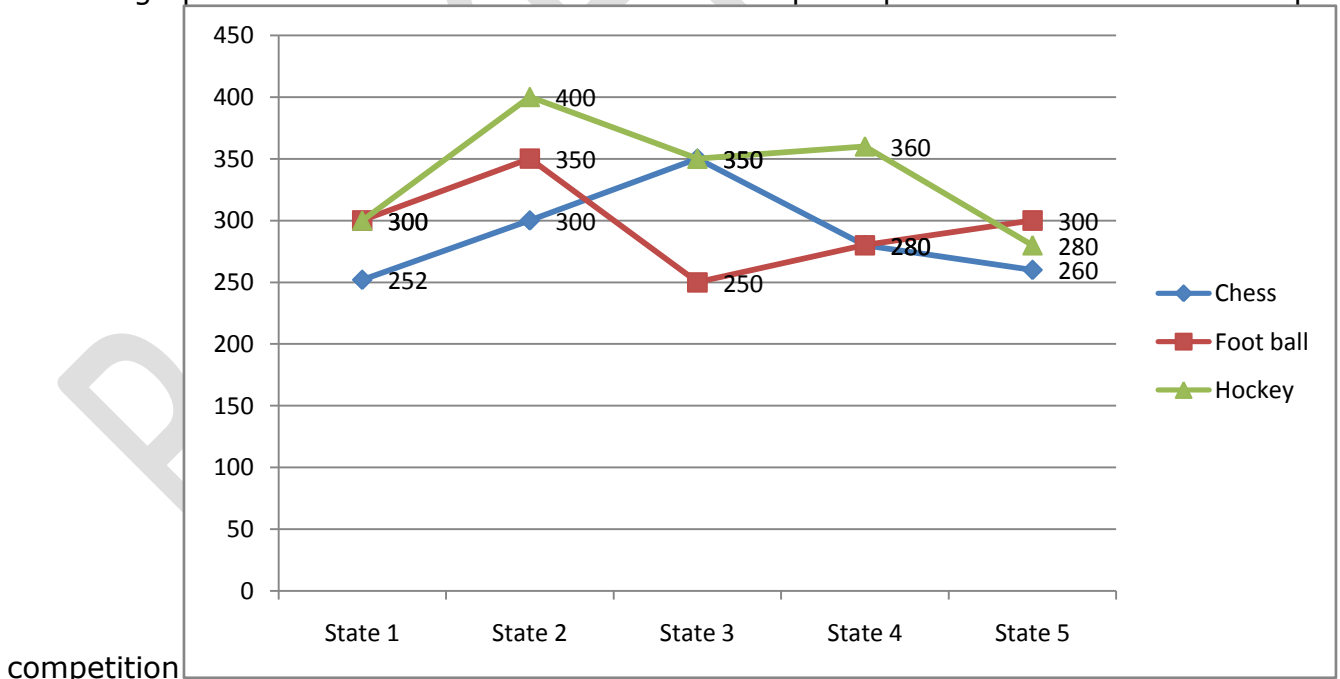
c)  $y > x$

d)  $x = y$  (or) relationship cannot be determined.

e)  $x \geq y$

D.21-25) Study the following graph and table and answer the following questions.

The line graph shows the number of school students participated in the national level sports



The table given the percentage of girls participated in the sports competition:

|         | Chess | Foot ball | Hockey |
|---------|-------|-----------|--------|
| State 1 | 25    | 35        | 40     |
| State 2 | 36    | 26        | 38     |
| State 3 | 16    | 48        | 36     |
| State 4 | 40    | 25        | 35     |
| State 5 | 50    | 30        | 20     |

Q.21) What is the total number of boys who participated in the sports competition from State 3?

- a) 796
- b) 897
- c) 786
- d) 648
- e) 876

Q.22) How many students participated in Hockey, from all the states?

- a) 1390
- b) 1439
- c) 1380
- d) 1490
- e) 1690

Q.23) Number of girls who participated in foot ball from state 5 is what percentage of the number of boys who participated in foot ball from state 2?

- a) 49.13%
- b) 42.42%
- c) 35.52%
- d) 34.75%
- e) 39.98%

Q.24) Number of boys participated in Hockey from States 1 and 3 together is what percentage of the average number of students participated in all the sports from state 2?

- a) 152.32%
- b) 134.543%
- c) 115.43%
- d) 132.43%
- e) 134.54%

Q.25) What is the difference between the number of boys who participated in all the sports from state 4 and the number of girls who participated in Hockey from all states together?

- a) 32
- b) 64
- c) 124

d) 78

e) 90

Q.26) 30 women can complete 24 baskets in 15 days, working 8 hours per day. If 5 women leave, how many baskets can be completed in 21 days, working 6 hours per day?

a) 18

b) 19

c) 15

d) 21

e) 22

Q.27) A basket contains 4 apples, 5 Guavas, and 9 orange fruits. If 3 fruits are drawn one by one with replacement, what is the probability that all are Oranges?

a)  $\frac{1}{4}$

b)  $\frac{1}{8}$

c)  $\frac{1}{9}$

d)  $\frac{3}{5}$

e)  $\frac{3}{7}$

Q.28) The cost of 4 red pens and 8 black pens is Rs. 84. The cost of 7 red pens and 5 black pens is Rs. 93; Find the total cost of 3 red pens and 7 black pens.

a) 69

b) 62

c) 65

d) 72

e) 77

Q.29) A boat covers a distance of 40 kms downstream in 2 hours while it takes 4 hours to cover the same distance upstream. What is the speed of the boat in still water in km per hour?

a) 13 km/hr

b) 20 km/hr

c) 15 km/hr

d) 18 km/hr

e) None of these

Q.30) The Simple interest accrued on an amount of Rs.18000 in 2 years is less than the compound interest for the same period by Rs.180. What is the rate of interest?

a) 18%

b) 12%

c) 10%

d) 16%

e) 17%

D.31-35) Study the following table and answer the questions:

The table shows the number of students studying various UG courses in different universities.

| University | Arts |       | Engineering |       | Medicine |       |
|------------|------|-------|-------------|-------|----------|-------|
|            | Boys | Girls | Boys        | Girls | Boys     | Girls |
| A          | 234  | 432   | 345         | 566   | 346      | 677   |

|   |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|
| B | 534 | 343 | 764 | 676 | 676 | 785 |
| C | 568 | 764 | 886 | 547 | 553 | 443 |
| D | 445 | 568 | 766 | 897 | 343 | 354 |
| E | 566 | 898 | 564 | 899 | 467 | 365 |
| F | 868 | 654 | 853 | 567 | 543 | 666 |

Q.31) What is the total number of medical students studying from all the universities together?

- a) 7210
- b) 7221
- c) 6321
- d) 6218
- e) 6198

Q.32) What is the difference between the average number of Engineering students from Universities B, C and F together and the average number of Arts students from universities A and E together?

- a) 465
- b) 284
- c) 398
- d) 366
- e) None of these

Q.33) Number of girls in Arts from university C is what percentage of the number of girls in Engineering from university E?

- a) 67.74%
- b) 84.98%
- c) 74.54%
- d) 75.98%
- e) None of these

Q.34) What is the ratio of the difference between the total number of girls in engineering and total number of boys in medical from all universities together to the total number of girls in Arts from all universities together?

- a) 1224 : 3659
- b) 1187 : 2243
- c) 1645 : 2389
- d) 1256 : 3191
- e) None of these

Q.35) Number of girls in Engineering from universities B and D together is what percentage of the number of boys in Arts from universities D and F together?

- a) 111.8%
- b) 101.4%
- c) 98.5%
- d) 121.4%
- e) 119.8%

Q.36) A train crosses a 300 m long platform at a speed of 72kmph in 25 sec and also passes a second train 250 m long running in opposite direction towards each other in 15 sec. what is the speed of the second train?



- a) 48kmph
- b) 34kmph
- c) 36kmph
- d) Cannot be determined
- e) None of these

Q.37) The ratio of monthly earning of Priya to that of Santhiya is 3 : 5. If the monthly earning of Priya is increased by 10% and that of Santhiya decreased by 30%, the new ratio becomes 33:35. What is Priya's monthly Salary?

- a) 40000
- b) 35000
- c) 33000
- d) Cannot be determined
- e) None of these

Q.38) A running track is in the form of a circular whose inner circumference is 396m and outer circumference is 528m. Find the width of the track.

- a) 33 m
- b) 22 m
- c) 24 m
- d) 43 m
- e) 21 m

Q.39) Vinoth is as much younger to Vicky as he is older to Vishva. If the total age of Vicky and Vishva is 56, how old is Vinoth?

- a) 26 years
- b) 35 years
- c) 28 years
- d) 32 years
- e) None of these

Q.40) A man buys an A.C costing Rs. 45000 including a GST of 20%. The shopkeeper gives him a discount, so that the price is decreased by an amount equivalent to GST. The price is decreased by,

- a) 7800
- b) 8000
- c) 7500
- d) 8500
- e) 7900

**D.1-5) In each question below are given some statements followed by some conclusions. 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 follow from the given statements.**

**Q.1) Statements:**

All green are blue.

Some green are red.

No white is red.

No black is white.

**Conclusions:**

I. Some blue which are green are also black is a possibility

II. No green is white

III. Some blue are not white is a possibility

a) Only I follows

b) Only I and III follow

c) Only II and III follow

d) All follow

e) None of these

**Q.2) Statements:**

Some masters are trainer.

Some trainers are coach.

Some coach is guide.

No guide is teacher.

No tutor is coach.

**Conclusions:**

I. Some trainers are not teacher

II. All master are not coach

III. No guide is tutor

a) Only I follows

b) Only I and III follow

c) Only II and III follow

d) All follow

e) None of these

**Q.3) Statements:**

All score are run.

No four is run.

No six is four.

All six are wicket.

**Conclusions:**

I. Some run are not wicket

II. Some four is not score

III. Some score which are run are also six is a possibility

a) Only I follows

b) Only I and III follow

c) Only II and III follow

d) All follow

e) None of these

**Q.4) Statements:**

No laptop is book.

All books are pen.

No book is bag.

No pen is paper.

**Conclusions:**

I. No book is paper

II. All laptops are not bag is a possibility

III. Some pens are not laptop

a) Only I and II follow

b) Only I and III follow

c) Only II and III follow

d) All follow

e) None of these

Q.5) **Statements:**

No cube is rectangle.

Some rectangles are circle.

All squares are circle.

No triangle is square.

**Conclusions:**

I. Some Triangles are cube

II. No rectangle is triangle

III. All square which are circle are also cube is a possibility

a) Only I follows

b) Only III follows

c) Only II and III follow

d) All follow

e) None of these

**D.6-7) Study the following information carefully and answer the questions given below:**

Jyoti walks 17m towards north and then take right turn and walks 7m and then turns 90 degree clockwise direction and walks 5m. Then she takes right turn and walks 16m to reach park. Finally she turns towards north and walks 5m to reach bus stop.

Q.6) Bus stop is in which direction with respect to Jyoti's starting point?

a) North west

b) North east

c) South west

d) South

e) None of these

Q.7) What is the shortest distance between Jyoti's starting point and park?

a) 12m

b) 9m

c) 15m

- d) 20m
- e) None of these

**D.8-12) Study the following information carefully and answer the questions given below:**

Ten persons are sitting in two parallel rows containing five persons each, in such a way that there is an equal distance between the adjacent persons. Persons sitting in row 1 face persons sitting in row 2. A, B, C, D and E are sitting in row 1 and faces north. K, L, M, N and O are sitting in row 2. Each of them likes different flowers viz., Aster, Begonia, Clover, Crocus, Daisy, Dahlia, Jasmine, Rose, Lily and Lotus but not necessarily in the same order.

One who sits opposite to B likes Jasmine. One of the immediate neighbours of E faces O who sits at the end of the row. One who likes Aster is an immediate neighbour of M. Two persons sit between O and K. C likes Crocus. One who sits opposite to B sits second to the right of M. Two persons sit between C and D. Neither K nor O likes Rose. D likes clover and does not sit at the extreme end of the row. One who likes Daisy sits opposite to one who likes Lily. One who likes Lotus sits diagonally opposite to O. One who likes Daisy is an immediate neighbour of one who likes Dahlia. Neither A nor O likes Dahlia. E doesn't like Rose. Neither Jasmine nor Daisy is liked by L. Neither A nor M likes Daisy.

Q.8) Who among the following likes Rose?

- a) One who sits second to the left of C
- b) One who sits second to the left of E
- c) One who sits second to the left of N
- d) One who sits second to the left of B
- e) None of these

Q.9) Who among the following sits opposite to one who likes Begonia?

- a) One who sits opposite to L
- b) One who sits opposite to O
- c) One who sits opposite to E
- d) One who sits opposite to K
- e) None of these

Q.10) Four of the following five are alike in a certain way based on the information and hence form a group. Which of the following does not belong to that group?

- a) O
- b) M
- c) C
- d) A
- e) L

Q.11) If C is related to B, K is related to L in the same way, who among the following is related to one who likes Clover?

- a) One who likes Dahlia
- b) One who likes Daisy
- c) One who likes Lotus
- d) One who likes Crocus
- e) None of these

Q.12) Which of the following combination is true?

- a) A-Rose
- b) B-Lotus
- c) K-Dahlia
- d) L-Lily
- e) None of these

**D.13-14) Study the following information carefully and answer the questions given below:**

K, L, M, N, O and Q are members of a family. O has two children. K is the father of L who is not the brother of O. Q is the sister in law of L. M is sister of N who is the daughter of Q.

Q.13) How is O related to M?

- a) Grandmother
- b) Mother
- c) Father
- d) Uncle
- e) None of these

Q.14) If L is married to S then how is S related to K?

- a) Daughter in law
- b) Son in law
- c) Niece
- d) Nephew
- e) None of these

Q.15) How many such pairs of letters are there in the word PRONOUNCE which have as many letters between them in the word as in the alphabetical order?

- a) None
- b) One
- c) Two
- d) Three
- e) None of these

**D.16-20) Study the following information carefully and answer the questions given below:**

Seven persons P, Q, R, S, T, U and V are live in seven different floors. The lowermost floor is numbered one and the floor above is numbered two and so on till the seventh floor. Each of them likes different colour viz., Red, Green, Blue, Yellow, White, Black and Brown but not necessarily in the same order.

Three persons live between Q and one who likes Brown. U lives in an even numbered floor and live below Q. P likes Black. S lives on the first floor and does not like Brown. One who likes Blue lives on the second floor. T lives immediately above P. Neither T nor P likes Brown. One who lives on the sixth floor likes White. R lives on one of the floor above V but not lives immediately above. There are as many persons live between one who likes Green and Yellow as between one who likes Green and Brown. Q does not like Yellow.

Q.16) How many persons live between R and one who likes Red?

- a) Two
- b) Three
- c) Four
- d) Five

e) None of these

Q.17) Four of the following five are alike in a certain way based on the information and hence form a group. Which of the following does not belong to that group?

- a) Q
- b) R
- c) P
- d) V
- e) S

Q.18) Who among the following lives in the 4<sup>th</sup> floor?

- a) One who likes Black
- b) One who likes Green
- c) One who likes Brown
- d) One who likes White
- e) One who likes Red

Q.19) Person who likes Red lives in which of the following floor?

- a) One
- b) Two
- c) Three
- d) Four
- e) None of these

Q.20) Which of the following combination is true?

- a) Q-7-Red
- b) U-6-White
- c) V-3-Brown
- d) V-4-Green
- e) None of these

**D.21-22) Study the following information carefully and answer the questions given below:**

Among A, B, C, D, E and F, C is heavier than A who is heavier than B. E is heavier than B and D. Neither E nor C is the heaviest. B is not the lightest. C is not the second heaviest.



Q.21) If A weighs 60kg, F weighs 75kg then which of the following statement may true?

- a) Sum of weighs of F and C is 130 kg
- b) E weighs 60 kg
- c) Sum of weighs of B and D is 124kg
- d) C weighs 65 kg
- e) None of these

Q.22) Who among the following is the third lightest?

- a) E
- b) B
- c) D
- d) A
- e) None of these

Q.23) How many such digits are there in the number 987365421 each of which is far away from the beginning of the number as when the digits are arranged in ascending order within the number?

- a) Eleven
- b) Twelve
- c) Thirteen
- d) Ten
- e) None of these

**D.24-28) Study the following information carefully and answer the questions given below:**

Nine persons A, B, C, D, E, F, G, H and I are sitting around a circular table. Some of them facing centre while some of them facing away from the centre but not necessarily in the same order.

Immediate neighbours of A face same direction. D sits second to the right of A and both of them facing same direction. F sits fourth to the right of E who is an immediate neighbour of A. H is an immediate neighbour of B. C is an immediate neighbour of E and H. D is not an immediate neighbour of F. Neither I nor G is an immediate neighbour of H. Immediate neighbours of C

faces same direction. G sits second to the right of I. B faces same direction as C. Less than five persons faces inside. H and B face opposite direction. F faces same direction as I.

Q.24) Who among the following sits fifth to the right of the person who sits third to the right of E?

- a) G
- b) H
- c) F
- d) D
- e) None of these

Q.25) How many persons sit between I and C when counted from the left of I?

- a) One
- b) Two
- c) Three
- d) Four
- e) None of these

Q.26) Four of the following five are alike in a certain way based on the information and hence form a group. Which of the following does not belong to that group?

- a) H
- b) E
- c) I
- d) G
- e) B

Q.27) Which of the following statement is true?

- a) E sits third to the left of B
- b) I sits fourth to the right of A
- c) G sits fifth to the right of H
- d) B faces same direction as G
- e) None is true

Q.28) In which of the following combination first person sits second to the right of second person?

- a) GE
- b) CA
- c) DF
- d) IB
- e) None of these

**D.29-33) Study the following information carefully and answer the questions given below:**

Seven persons K, L, M, N, O, P and Q are have seminar on seven different days of the week starting from Monday. Different number of persons attends the seminar on each day.

19 persons attend the seminar on Thursday. Two persons attend the seminar between P and N. P has seminar before N. 45 persons attend the seminar of Q. Number of persons attending the seminar of K is one-third of the persons who attend the seminar of Q. N has seminar after Friday. O has seminar immediately before K. O has seminar on neither Thursday nor Friday. Number of persons attend the seminar on Friday is twice the persons attend the seminar of O. Persons who have seminar after P those seminar was attend by more number of persons than persons attend the seminar of P. There are as many persons have seminar between M and O as between K and Q. Number of persons attend the seminar of L is two more than the number of persons attend the seminar of O. Total number of persons attend the seminar of K and N is twice the number of persons who attend the seminar of L. Total number of persons attend the seminar of O and M is nine more than number of persons who attend the seminar on Saturday. Odd number of persons attends the seminar on Wednesday.

Q.29) Who among the following has seminar on Friday?

- a) L
- b) P
- c) M
- d) N
- e) None of these

Q.30) Four of the following five are alike in a certain way based on the information and hence form a group. Which of the following does not belong to that group?

- a) P

b) L

c) Q

d) N

e) O

Q.31) Which of the following statement is true?

a) K-Monday

b) P-Wednesday

c) N-Saturday

d) O-Tuesday

e) None is true

Q.32) If L is related to 18, O is related to 15 then who among the following is related to 36?

a) One who has seminar on Monday

b) One who has seminar on Tuesday

c) One who has seminar on Wednesday

d) One who has seminar on Thursday

e) None of these

Q.33) How many persons attend the meeting on Friday, Saturday and Sunday?

a) 96

b) 104

c) 91

d) 106

e) 118

**D.34-37) Study the following information carefully and answer the questions given below:**

Q.34) **Statement:**

$A > E > C \geq F = L, K < G \leq C = V < P$

**Conclusion:**

I.  $E > P$

II.  $G \leq A$

III.  $V > A$

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

Q.35) **Statement:**

$$K > A > W = Q < F, D \geq S < U \leq I < W$$

**Conclusion:**

I.  $U < Q$

II.  $A > D$

III.  $F > I$

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

Q.36) **Statement:**

$$Y < U < A \leq Z = K, P \geq E \geq R = Z \geq I$$

**Conclusion:**

I.  $A < E$

II.  $R > U$

III.  $A = E$

- a) Only I is true
- b) Either I or III is true
- c) Only III is true
- d) Only II and either I or III are true
- e) None of these

Q.37) **Statement:**

$$P < G < D < K = Z > S, M < L < K \leq O = N$$

**Conclusion:**

I.  $K > P$

II.  $Z \leq N$

III.  $M < S$

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

**D.38-40) Study the following information carefully and answer the questions given below:**

In a certain code language,

'small Pluto in solar way' is written as 'pic asv jud jsk slv '

'I hid in the solar glory' is written as 'fac ves slv pic lmd prt'

'butterfly finding its own way' is written as 'swt pst jud aic opt'

'like the small coloured butterfly' is written as 'aic jsd jsk cdf lmd'

Q.38) What may be the possible code for 'finding own Pluto way' is written in that code language?

- a) swt opt pst jud
- b) asv swt opt pst
- c) asv jud swt pst
- d) jud asv swt jsk
- e) None of these

Q.39) What may be the code for 'coloured solar like'?

- a) pic cdf ves
- b) ves cdf jsd
- c) jsd cdf fac
- d) jsd cdf slv
- e) None of these

Q.40) If 'I hid in planet' is written as 'pic ves fac gqa' then what is the code for 'glory like coloured' in that code language?

- a) jsd prt lmd  
 b) prt jsd cdf  
 c) cdf prt jsk  
 d) prt lmd cdf  
 e) None of these

Q.1) c

$$24 \times 3 + 1 = 73$$

$$73 \times 3 + 2 = 221$$

$$221 \times 3 + 3 = 666$$

$$666 \times 3 + 4 = 2002$$

$$2002 \times 3 + 5 = 6011$$

Q.2) d

|    |    |    |    |     |    |     |    |     |    |     |
|----|----|----|----|-----|----|-----|----|-----|----|-----|
| 81 |    | 92 |    | 105 |    | 122 |    | 145 |    | 176 |
|    | 11 |    | 13 |     | 17 |     | 23 |     | 31 |     |
|    |    | 2  |    | 4   |    | 6   |    | 8   |    |     |

Q.3) e

$$7 \times 1.5 + 0.5 = 11$$

$$11 \times 2 + 1 = 23$$

$$23 \times 2.5 + 2 = 59.5$$

$$59.5 \times 3 + 4 = 182.5$$

$$182.5 \times 3.5 + 8 = 646.75$$

Q.4) b

|    |    |     |    |     |    |     |    |     |     |     |
|----|----|-----|----|-----|----|-----|----|-----|-----|-----|
| 91 |    | 105 |    | 143 |    | 205 |    | 291 |     | 401 |
|    | 14 |     | 38 |     | 62 |     | 86 |     | 110 |     |
|    |    | 24  |    | 24  |    | 24  |    | 24  |     |     |

Q.5) c

$$2 \times 2 + 1 = 5$$

$$5 \times 3 - 2 = 13$$

$$13 \times 4 + 3 = 55$$

$$55 \times 5 - 4 = 271$$

$$271 \times 6 + 5 = 1631$$

Q.6) d

$$\text{Bank A} = 1350 - 650 = 700 \times \frac{70}{100} = 490$$

$$\text{Bank B} = 2750 - 900 = 1850 \times \frac{54}{100} = 999$$

$$\text{Bank C} = 1400 - 500 = 900 \times \frac{76}{100} = 684$$

$$\text{Bank D} = 1800 - 740 = 1060 \times \frac{45}{100} = 477$$

$$\text{Bank E} = 1150 - 630 = 520 \times \frac{26}{100} = 182$$

$$\text{Bank F} = 2100 - 850 = 1250 \times \frac{64}{100} = 800$$

Maximum number of male clerks is working in Bank B

Q.7) e

Total number of officers in all banks =  $650 + 900 + 500 + 740 + 630 + 850 = 4270$

Male clerks in Bank A, B, D and F

$$\text{Bank A} = 1350 - 650 = 700 \times \frac{70}{100} = 490$$

$$\text{Bank B} = 2750 - 900 = 1850 \times \frac{54}{100} = 999$$

$$\text{Bank D} = 1800 - 740 = 1060 \times \frac{45}{100} = 477$$

$$\text{Bank F} = 2100 - 850 = 1250 \times \frac{64}{100} = 800$$

Total =  $490 + 999 + 477 + 800 = 2766$

Difference =  $4270 - 2766 = 1504$

Q.8) a

$$\text{Number of female clerks working in bank A} = 1350 - 650 = 700 \times \frac{30}{100} = 210$$

$$\text{Number of male officers working in bank D} = 740 \times \frac{75}{100} = 555$$

$$= \text{Required percentage} = \frac{210}{555} \times 100 = 37.84\%$$

Q.9) b

Female clerks working in bank B, C and D ,

$$\text{Bank B} = 2750 - 900 = 1850 \times \frac{46}{100} = 851$$

$$\text{Bank C} = 1400 - 500 = 900 \times \frac{24}{100} = 216$$

$$\text{Bank D} = 1800 - 740 = 1060 \times \frac{55}{100} = 583$$

$$\text{Average} = \frac{851 + 216 + 583}{3} = \frac{1650}{3} = 550$$

Number of employees working in banks A and E,

$$= 1350 + 1150 = 2500$$

$$\text{Required percentage} = \frac{550}{2500} \times 100 = 22\%$$

Q.10) c

Number of male clerks in banks B and D,

$$\text{Bank B} = 2750 - 900 = 1850 \times \frac{54}{100} = 999$$

$$\text{Bank D} = 1800 - 740 = 1060 \times \frac{45}{100} = 477$$

Total = 1476

Number of female clerks in bank C and F,

$$\text{Bank C} = 1400 - 500 = 900 \times \frac{24}{100} = 216$$



$$\text{Bank } F = 2100 - 850 = 1250 \times \frac{36}{100} = 450$$

$$\text{Total} = 666$$

$$\text{Percentage required} = \frac{1476}{666} \times 100 = 222\%$$

Q.11) b

$$238.5 + 784 \div 8 - 156.3 - 22.2 = ?$$

$$? = 158$$

Q.12) a

$$2064 + 98 - 188 \div 4 = 2115$$

Q.13) c

$$0.24 \times 5460 + 0.15 \times 9995 + 287 = ?$$

$$? = 3096.65$$

Q.14) d

$$87932 + 49230 - 39239 + 3292 - 9281 - 23123 + 12 = 68823$$

Q.15) e

$$\frac{78 \times 184 \times 33}{\sqrt[2]{529} \times \sqrt[3]{2197}} = ?$$

$$\frac{78 \times 184 \times 33}{23 \times 13} = 1584$$

Q.16) c

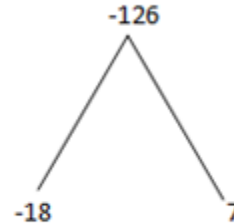
$$I. 2x^2 + 4x - 16 = 0$$



$$X = \frac{8}{2}, -\frac{-4}{2} = -4, 2$$

Relationship cannot be determined.

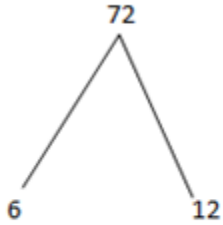
$$II. 3y^2 - 11y - 42 = 0$$



$$y = \frac{18}{3}, \frac{7}{3} = 6, -2.33$$

Q.17) e

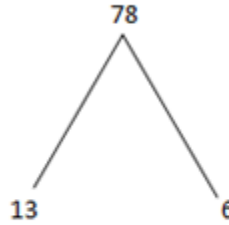
I.  $24x^2 + 18x + 3 = 0$



$$X = \frac{-6}{24}, \frac{-12}{24} = -0.25, -0.5$$

Relationship cannot be determined.

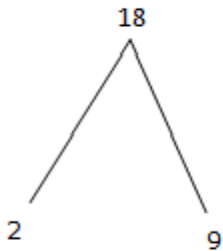
II.  $26y^2 + 19y + 3 = 0$



$$Y = \frac{-13}{26}, \frac{-6}{26} = -0.5, -0.23$$

Q.18) b

I.  $x^2 + 11x + 18 = 0$



$$x = -2, -9$$

II.  $y^2 + 3y - 54 = 0$



$$y = -9, 6$$

Relationship cannot be determined.

Q.19) a

$$5x + y = 5 \text{ -----(I)}$$

$$3x - 3y = 21 \text{ -----(II)}$$

Solve the above equation and get the X and Y values,

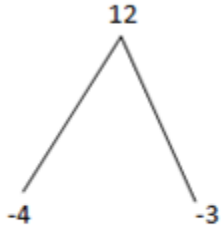
$$X = 2$$

$$Y = -5$$

$$x > y$$

Q.20) c

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



$x = \frac{4}{2}, \frac{3}{2} = 2, 1.5$

$x < y$

II.  $3y^2 - 16y + 21 = 0$



$y = \frac{9}{3}, \frac{7}{3} = 3, 2.3$

Q.21) d

Number of boys who participated in chess from state 3 =  $350 \times \frac{84}{100} = 294$

Number of boys who participated in Foot ball from state 3 =  $250 \times \frac{52}{100} = 130$

Number of boys who participated in Hockey from state 3 =  $350 \times \frac{64}{100} = 224$

total=648

Q.22) e

$300+400+350+360+280=1690$

Q.23) d

Number of girls who participated in foot ball from state 5 =  $300 \times \frac{30}{100} = 90$

Number of boys who participated in foot ball from state 2 =  $350 \times \frac{74}{100} = 259$

Required percentage =  $\frac{90}{259} \times 100 = 34.75\%$

Q.24) c

Number of boys who participated in Hockey from State 1 =  $300 \times \frac{60}{100} = 180$

Number of boys who participated in Hockey from State 3 =  $350 \times \frac{64}{100} = 224$

Total=404

Average number of students who participated in all the sports from state 2,

$= \frac{300 + 350 + 400}{3} = 350$

Required percentage =  $\frac{404}{350} \times 100 = 115.43\%$

Q.25) a

Number of boys who participated in all the sports from state 4,

Number of boys who participated in Chess from State 4 =  $280 \times \frac{60}{100} = 168$

Number of boys who participated in Hockey from State 3 =  $280 \times \frac{25}{100} = 70$

Number of boys who participated in Hockey from State 3 =  $360 \times \frac{35}{100} = 126$

Total=612

$$\text{Number of girls who participated in Hockey from state 1} = 300 \times \frac{40}{100} = 120$$

$$\text{Number of girls who participated in Hockey from state 2} = 400 \times \frac{38}{100} = 152$$

$$\text{Number of girls who participated in Hockey from state 3} = 350 \times \frac{36}{100} = 126$$

$$\text{Number of girls who participated in Hockey from state 4} = 360 \times \frac{35}{100} = 126$$

$$\text{Number of girls who participated in Hockey from state 5} = 280 \times \frac{20}{100} = 56$$

Total=580

Difference=612-580=32.

Q.26) d

$$\frac{(M_1 \times D_1 \times H_1)}{W_1} = \frac{(M_2 \times D_2 \times H_2)}{W_2}$$

$$W_2 = \frac{24 \times 25 \times 21 \times 6}{30 \times 15 \times 8} = 21$$

Q.27) b

Total number of fruits=4+5+9=18

$$\text{Probability that Orange is drawn in one draw} = \frac{9}{4+5+9} = \frac{1}{2}$$

Required probability of drawing 3 fruits with replacement such that all the fruits are oranges,

$$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{8}$$

Q.28) a

$$4R + 8B = 84 \text{ --- (1)}$$

$$7R + 5B = 93 \text{ --- (2)}$$

Solving both the equations, we get R=9 and B =6

$$3 \times 9 + 7 \times 6 = 69$$

Q.29) c

$$\text{Downstream speed} = \frac{40}{2} = 20 \frac{\text{km}}{\text{hr}}$$

$$\text{Up stream speed} = \frac{40}{4} = 10 \frac{\text{km}}{\text{hr}}$$

$$\text{Speed of boat} = \frac{20 + 10}{2} = 15 \frac{\text{km}}{\text{hr}}$$

Q.30) c

$$\text{Difference} = \frac{pr^2}{100^2}$$

$$180 = \frac{18000r^2}{100 \times 100}$$

$$180 \times 100 \times 100 = 1800r^2$$

$$r = 10\%$$

Q.31) d

Total number of medical students =

$$346 + 677 + 676 + 785 + 553 + 443 + 343 + 354 + 467 + 365 + 543 + 666 = 6218$$

Q.32) d

Engineering students from Universities B, C and F,  
 $= 676 + 764 + 547 + 886 + 567 + 853 = 4293$

$$\text{Average} = \frac{4293}{3} = 1431$$

Arts students from universities A and E,  
 $= 234 + 432 + 566 + 898 = 2130$

$$\text{Average} = \frac{2130}{2} = 1065$$

Difference =  $1431 - 1065 = 366$

Q.33) b

$$\text{Required percentage} = \frac{764}{899} \times 100 = 84.98\%$$

Q.34) a

Total number of engineering girls from all university,  
 $= 566 + 676 + 547 + 897 + 899 + 567 = 4152$

Total number of boys in medical students from all university,  
 $= 346 + 676 + 553 + 343 + 467 + 543 = 2928$

Difference =  $4152 - 2928 = 1224$

Total number of girls in Arts from all university,  
 $= 432 + 343 + 764 + 568 + 898 + 654 = 3659$

Required ratio =  $1224 : 3659$

Q.35) e

$$\text{Required percentage} = \frac{676 + 897}{445 + 868} \times 100 = \frac{1573}{1313} \times 100 = 119.8\%$$

Q.36) c

Let the length of first train be  $l_1$

$$\frac{l_1 + 300}{72 \times \left(\frac{5}{18}\right)} = 25$$

$$l_1 + 300 = 500$$

$$l_1 = 200m$$

Given,

$$\frac{250 + 200}{72 \times \left(\frac{5}{18}\right) + x} = 15$$

$$\frac{450}{20 + x} = 15$$

$$30 = 20 + x$$

$$x = 10m/s$$

$$x = 10 \times \frac{18}{5} = 36 \text{ kmph}$$

Q.37) d

Since all the given values are in ratio or percentage and no absolute value is given, we cannot find the answer.

Q.38) e

Inner Circumference of the track = 396m

$$2\pi r = 396$$

$$r = \frac{396 \times 7}{22 \times 2} = 63m$$

Outer Circumference of the track = 528m

$$2\pi R = 528$$

$$R = \frac{528 \times 7}{2 \times 22} = 84m$$

Width of the track = 84 - 63 = 21m

Q.39) c

$$\text{Vicky} + \text{Vishva} = 56$$

$$\text{Vicky} - \text{Vinoth} = \text{Vinoth} - \text{Vishva}$$

$$\text{Vicky} + \text{Vishva} = 2 \text{Vinoth}$$

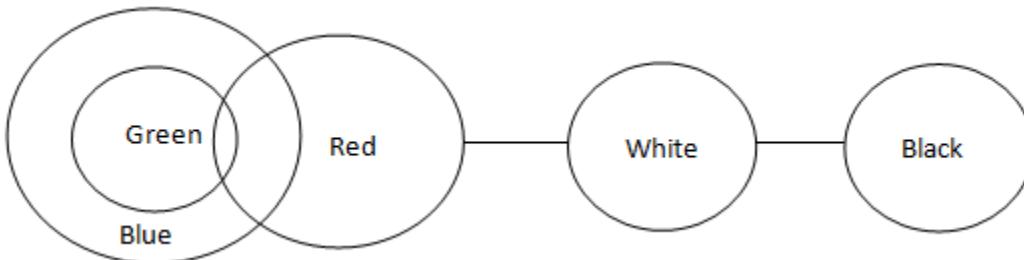
$$\text{Vinoth} = 28 \text{ years}$$

Q.40) c

$$45000 \left( \frac{100}{120} \right) = 37500$$

$$\text{GST} = 45000 - 37500 = \text{Rs.}7500$$

1. (a)

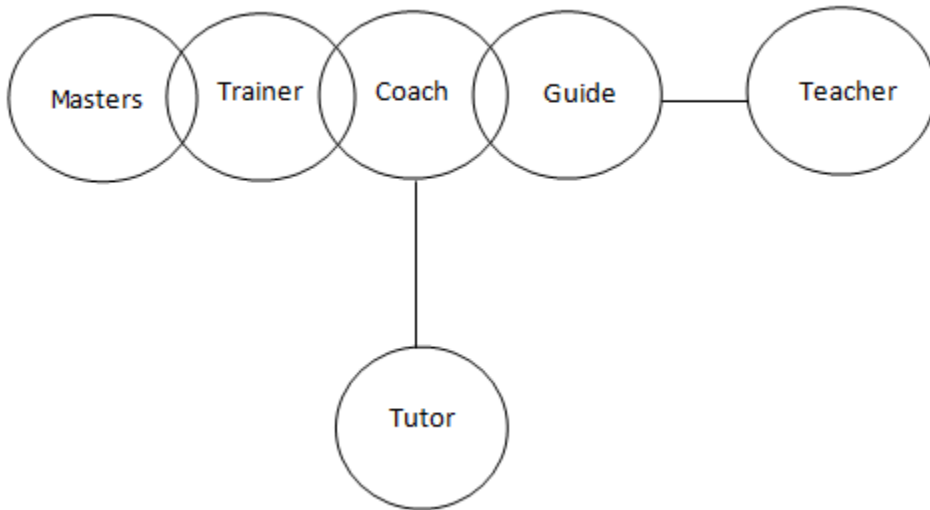


I. True

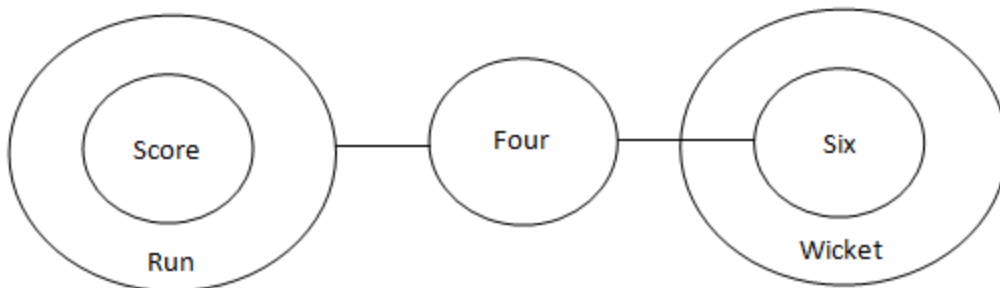
II. False

III. False

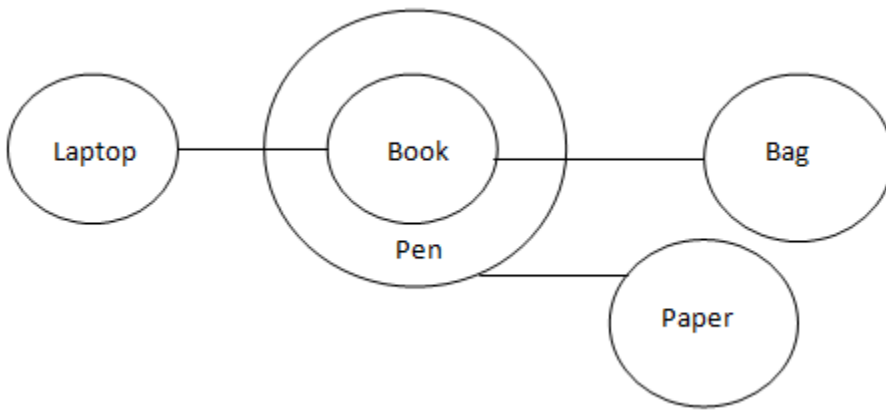
2. (e)



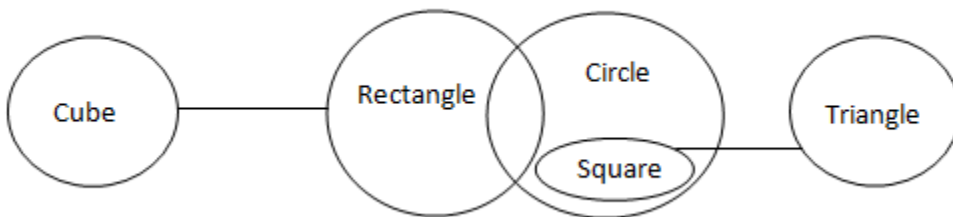
- I. False
- II. False
- III. False
- 3. (c)



- I. False
- II. True
- III. True
- 4. (d)

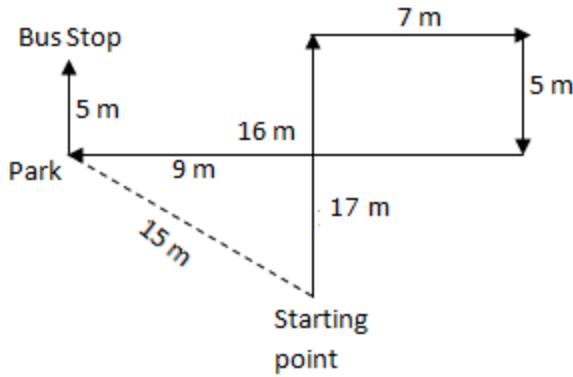


- I. True
- II. True
- III. True
- 5. (b)



- I. False
- II. False
- III. True
- D.6-7)





6. (a)

7. (c)

D.8-12)

|          |          |          |          |          |       |
|----------|----------|----------|----------|----------|-------|
| Begonia  | Lily     | Jasmine  | Aster    | Rose     |       |
| <u>Q</u> | <u>L</u> | <u>N</u> | <u>K</u> | <u>M</u> | Row 2 |
| <u>C</u> | <u>E</u> | <u>B</u> | <u>D</u> | <u>A</u> |       |
| Crocus   | Daisy    | Dahlia   | Clover   | Lotus    | Row 1 |

8. (c)

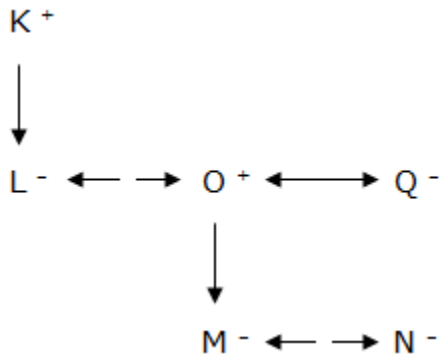
9. (b)

10. (e)

11. (b)

12. (d)

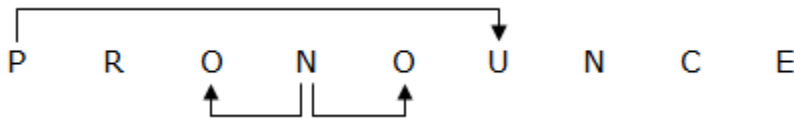
**D.13-14)**



13. (c)

14. (b)

15. (d)



**D.16-20)**

| Floor | Person | Colour |
|-------|--------|--------|
| 7     | R      | Brown  |
| 6     | T      | White  |
| 5     | P      | Black  |
| 4     | V      | Green  |
| 3     | Q      | Red    |
| 2     | U      | Blue   |
| 1     | S      | Yellow |

16. (b)

17. (d)

18. (b)

19. (c)

20. (d)

**D.21-22)**

F > E > C > A > B > D

21. (d)

22. (d)

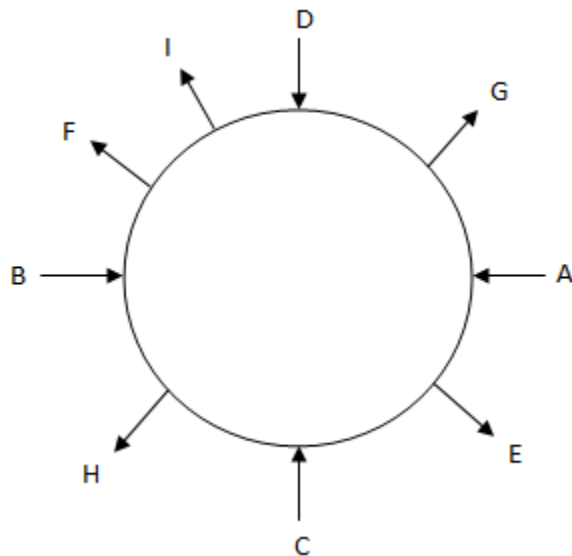
23. (e)

9 8 7 3 6 5 4 2 1

1 2 3 4 5 6 7 8 9

1 9, 2 9, 1 2, 1 7, 1 8, 2 7, 2 8, 3 5, 4 5, 4 6, 5 6, 7 8, 7 9, 8 9

**D. 24-28)**



24. (a)

25. (c)

26. (e)

27. (c)

28. (c)

**D.29-33)**

| Days      | Persons | Seminar attended by |
|-----------|---------|---------------------|
| Monday    | L       | 20                  |
| Tuesday   | O       | 18                  |
| Wednesday | K       | 15                  |

|          |   |    |
|----------|---|----|
| Thursday | P | 19 |
| Friday   | M | 36 |
| Saturday | Q | 45 |
| Sunday   | N | 25 |

29. (c)  
30. (a)  
31. (d)  
32. (d)  
33. (d)  
34. (e)

K  
Λ  
G  
Λ  
P

$$A > E > C \geq F = L$$

||  
V  
Λ  
P

- I.  $E > P$  - False  
II.  $G \leq A$  - False  
III.  $V > L$  - False  
35. (d)

$K > A > W = Q < F$

V

I

VI

U

V

S

NI

D

I.  $U < Q$  - True

II.  $A > D$  - False

III.  $F > I$  - True

36. (d)

$Y < U < A \leq Z = K = R \leq E \leq P$

VI

I

I.  $A < E$  - False -Either 'or'

II.  $R > U$  - True

III.  $A = E$  - False - Either 'or'

37. (d)

M

Λ

L

Λ

$P < G < D < K = Z > S$

NI

O

II

N

- I.  $K > P$  – True  
II.  $Z \leq N$  – True  
III.  $M < S$  – False  
D.38-40)

Small Pluto in Solar Way – pic asv jud jsk slv  
I hid in the Solar Glory – fac ves slv pic lmd prt  
Butterfly Finding its own Way – swt pst jud aic opt  
Like the Small coloured Butterfly – aic jsd jsk cdf lmd

38. (c)  
39. (d)  
40. (b)

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