

Puzzle Test

REASONING WORKBOOK

QUESTIONS

1. Five boys A, B, C, D and E are sitting in a row. A is adjacent to E. E is in middle of the row. A is not adjacent to B or C. Then D is adjacent to whom?
(a) C (b) A (c) B (d) D
2. Six students including P are sitting on two benches in two rows, three in each as the following:
Q is the neighbour of U, and R is the neighbour of T. S is second to the left of U. R is sitting diagonally opposite to S. T is not at the end of any row. Who is facing Q?
(a) T (b) S (c) Q (d) R
3. Four friends A, B, C and D are sitting in a circle, all facing centre of the circle. A & B and C & D are at the extremities of two diameters. If C is immediate left of B, what is the position of A?
(a) Directly opposite to D (b) Immediate left of C
(c) Immediate right of C (d) Immediate left of D
4. Six girls are standing on a circle, all facing outside the circle. Girl G_1 is adjacent to G_5 and G_6 . G_2 is immediate left of G_5 and immediate right of G_4 . Find the place of G_3 .
(a) G_3 is immediate right of G_2 (b) G_3 is immediate right of G_1
(c) G_3 is immediate right of G_4 (d) G_3 is immediate left of G_4
5. There are four girls A, B, C, D and four boys P, Q, R, S. Out of them four are sitting on a side of a small rectangular park and rest on the opposite side. All are facing inside the park. A, B, P and S are on the vertices of the park. Q lies between A and D, C lies between B and R, R lies between C and S and A is immediate right of B. If C is immediate right of R, then the pairs on the diagonals are
(a) A - S and B - P (b) A - B and S - P (c) A - P and B - S (d) C - D and Q - R
6. Geeta and Upma are good in Hockey. Geeta and Sonia are good in Football. Radha, Sonia and Upma are good in Cricket. Geeta and Radha are good in Baseball. Who is good in Hockey, Football and Baseball?
(a) Geeta (b) Radha (c) Sonia (d) Upma
7. In a row of some children facing south, A is fifteenth from the right end and B is third to the right of A. C who is fifth from the left end of the row is seventh to the left of B. What is A's position from the left end of the row?
(a) 12th (b) 11th (c) 10th (d) 9th
8. Seven friends P, Q, R, S, T, U and V are leaning against a North-South wall. V is between U and T. S who is third from the North end is at immediate left of R. T's neighbour is Q who is at one of the extreme ends. Who is leaning in the centre?
(a) S (b) T (c) U (d) V
9. Five passengers are standing in a row. P_5 is sitting next to P_3 and P_2 is sitting next to P_4 . P_1 is not next to P_2 or P_3 . If P_1 is on the extreme left, who are adjacent to P_5 ?
(a) P_2 and P_3 (b) P_4 and P_3 (c) P_3 and P_1 (d) P_1 and P_4
10. Seven candidates were present in an interview. No two of them got equal marks. A scored more than B, and G scored more than A. Either D scored the highest and B or F scored the least, or alternately C scored the highest and E got the least.
If G ranked fifth, which of the following must be true?
(a) C was ranked second (b) D was ranked first
(c) E was ranked third (d) B was ranked fourth
11. P is shorter than Q who is taller than S. R is shorter than P. R is not as tall as S. Q is not as tall as T. The shortest one and the tallest one are respectively
(a) D, E (b) C, B (c) R, T (d) T, R
12. Ravi is older than Dinesh but younger than Manav. Dinesh is as old as Paras but older than Mukesh. Then Paras is
(a) Older than Mukesh (b) Shorter than Dinesh
(c) Older than Manav (d) Older than Ravi
13. Asha is twice as tall as Radha but twice shorter than Manvi. Ganga is half the height of Radha but twice the height of Sheila. Who is the middle most girl in the height?
(a) Asha (b) Ganga (c) Manvi (d) Radha
14. A is taller than B while C and D are taller than E who is taller than A. If no two are equal in height, then which of the following statements is wrong?
(a) C is taller than A (b) C is the tallest one
(c) B is the shortest one (d) E is third in height

Direction (15-18): (i) P, Q, R, S, T and U are six students procuring their Master's degree in six different subjects - English, History, Philosophy, Physics, Statistics and Mathematics.

(ii) Two of them stay in a hostel, two stay as paying guest (PG) and the remaining two stay at their home.

(iii) R does not stay as PG and studies Philosophy.

(iv) The students studying Statistics and History do not stay as PG.

(v) T studies Mathematics and S studies Physics.

(vi) U and S stay in hostel. T stays as PG and Q stays at home.

15. Which of the following combinations of subject and places of stay is not correct?

- (a) English - Hostel (b) Mathematics - PG
(c) Philosophy - Home (d) Physics - Hostel

16. Which of the following pairs of students stay one each at hostel and at home?

- (a) QR (b) SR
(c) US (d) Data inadequate

17. Which subject does Q study?

- (a) History (b) Statistics
(c) History or Statistics (d) Data inadequate

18. Which of the following pairs of students stay at home?

- (a) PQ (b) QR (c) RS (d) ST

Direction (19 - 22): Read the following information carefully and then answer the correct alternatives of the questions that follow. Gaurav has 5 marbles named A, B, C, D and E of different weights:

A's weighs half as much as B.

B's weighs one and a half as much as C.

C's weighs twice as much as D.

D's weighs three fourth as much as E.

19. Which marble is at the middle most as in weight?

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

20. Which marble is the lightest?

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

21. Which is the heaviest?

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

22. Marble E is adjacent in weight to which marbles?

- (a) B, C (b) A, C (c) A, D (d) C, D

23. Study the following information carefully and answer the question given below:

J, K, H, R, F, L, N and Q are sitting around a circular table facing the centre. H is third to the left of L and to the immediate right of K. R is third to the left of N but is not a neighbour of H or L.

J is second to the right of Q.

Which of the following groups of persons has the first person sitting between the next two?

- (a) LKN (b) QFL (c) JHR (d) JLF

24. Read the following information and answer the question that follows:

I. Six men B, D, C, M, J and K are split in two groups of three each and are made to stand in two rows, such that a man in one row is exactly facing a man in the other row.

II. M is not at the ends of any row and is to the right of J, who is facing C. K is to the left of D, who is facing M.

Who is to the immediate left of B?

- (a) M (b) D
(c) J (d) Data inadequate

25. P, Q, R, Sand Tare Banks. Banks P, Q and R have their branches in Meerut and Lucknow. P, Q and T have their branches in Meerut and Gorakhpur. Q, R and S have their branches in Kanpur and Lucknow. P, T and S have their branches in Gorakhpur and Varanasi while R, T and S have their branches at Kanpur and Varanasi.

Which bank has its branch in Kanpur and Meerut but not in Lucknow?

- (a) P (b) Q (c) R (d) T

26. Four brothers go to a dance party. As they leave, each of the brothers accidentally takes a hat belonging to another brother and a coat belonging to a third brother. M takes the coat belonging to the brother whose hat is taken by P, while P's coat is taken by the brother who takes M's hat. S takes J's hat. Whose hat was taken by P?

- (a) Can't say (b) S
(c) M (d) Either S or J

27. P, Q, R, S, T, U and W are sitting around a circle facing at the centre. S is third to the left of P who is second to the left of U. T is not a neighbour of either U or S. R is third to the left of Q. Which of the following information represents the first person sitting to the immediate right of the second person?
 (a) PQ (b) UW (c) RT (d) PT
28. A, B, C, D, E, F, G and H are sitting in a circle facing the centre. E and G always sit next to each other. D sits third to the right of C. F sits second to the left of H. C never sits next to A while D never sits next to G. H is not the neighbour of D and C.
 Three of the following four are alike in a certain way based on their positions in the seating arrangement and so form a group. Which is the one that does not belong to that group? **(SOF NC02016)**
 (a) CH (b) BA (c) DG (d) AC
29. Eight friends Q, R, S, T, V, W, Y and Z are sitting around a circular table, facing the centre. There are three males and five females in the group of friends. No two males are immediate neighbours of each other.
 (i) V sits second to the right of his wife.
 (ii) S sits third to the right of V.
 (iii) W sits second to the right of her husband Z. Z is not an immediate neighbour of V's wife.
 (iv) T is a male and Y is not an immediate neighbour of V.
 (v) R sits second to the right of Q.
 Which of the following statements is true regarding T? **(SOF IMO 2016)**
 (a) T is an immediate neighbour of Z's wife.
 (b) No male is an immediate neighbour of T.
 (c) Q sits second to the right of T.
 (d) All are true.
30. P, Q, R, S, T and M are six houses of different heights and of different colours i.e., red, blue, white, orange, yellow and green, located on either sides of a road with three on each side. T, the tallest house, is exactly opposite to the red coloured house. The shortest house is exactly opposite to the green coloured house. M is the orange coloured house and is located between P and S. R, the yellow coloured house, is exactly opposite to P. Q, the green coloured house, is exactly opposite to M. P, the white coloured house, is taller than house R but shorter than houses S and Q. What is the position of house P from top when the houses are arranged in descending order of their heights? **(SOF IMO 2016)**
 (a) Third (b) Second (c) Fourth (d) Data inadequate
31. Nine friends A, B, C, D, E, F, G, H and I are sitting around a circle facing the centre. I sits 5th to the right of G. C is not an immediate neighbour of either G or I. B sits between H and E. C sits 4th to the left of E. D sits 2nd to the right of F. H is not an immediate neighbour of I. Who is 2nd to the right of B? **(SOF NCO 2017)**
 (a) G (b) I (c) F (d) Can't say
32. P, Q, R, S, T and U are six persons travelling together in a boat. Three of them Q, R and T are women and the rest are men. However P, Q, R and T are all vegetarian and S and U are non-vegetarian. Q, T and U know swimming while the rest do not know how to swim.
 Who among the following is a vegetarian female who does not know swimming? **(SOF NSO 2017)**
 (a) P (b) Q (c) R (d) T
33. A theatre has six performing ladies consisting of four vocal musicians, two dancers, one actress and three violinists. Gauri and Vandana are among the violinists while Jaya and Shailja do not know playing on violin. Shailja and Tanya are the dancers. Jaya, Shailja, Vandana and Tanya are all vocal musicians and two of them are also violinists. Pooja is an actress. Who amongst these lady artists is a dancer, a vocal musician and a violinist? **(SOF IMO 2017)**
 (a) Shailja (b) Jaya (c) Tanya (d) Vandana
34. Six students P, Q, R, S, T and U participated in a dancing competition wherein they won prizes ₹ 12000, ₹ 10000, ₹ 8000, ₹ 6000, ₹ 4000 and ₹ 2000 according to the position secured. The following information is known to us:
 I. P won less money than Q.
 II. The difference between the winning amount of R and U was ₹ 2000.
 III. The difference between the winning amount of S and U was at least ₹ 4000.
 IV. T won ₹ 8000 prize.
 If P won ₹ 4000, then how much in total did R and U win? **(SOF IMO 2017)**
 (a) ₹ 6000 (b) ₹ 10000 (c) ₹ 22000 (d) ₹ 18000

- 35.** Read the given information to answer the question that follows:
Seven people A, B, C, D, E, F and G are planning to enjoy boating. There are only two boats and the following conditions are to be kept in mind. '
- I. A will go in the same boat in which E is to go.
 - II. F cannot go in the boat in which C is to go, unless D is also accompanying.
 - III. Neither B nor C can be given the boat in which G is.
 - IV. The maximum number of persons in one boat can be four only.
- If F and B are in one boat, which of the following statements is true?
- (SOF IMO 2017)**
- (a) G is in the other boat.
 - (b) D is in the other boat.
 - (c) C is in the other boat.
 - (d) E is with F and B in one boat.

ANSWER - KEY				
1. B	2. A	3. B	4. D	5. A
6. A	7. D	8. C	9. C	10. B
11. C	12. A	13. D	14. B	15. A
16. B	17. C	18. B	19. D	20. D
21. B	22. C	23. D	24. A	25. D
26. B	27. D	28. D	29. D	30. C
31. A	32. C	33. C	34. C	35. A

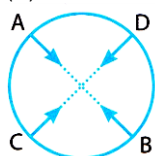
EXPLANATIONS

1. (b) : The correct order is D A E (B or C), (B or C) E A D

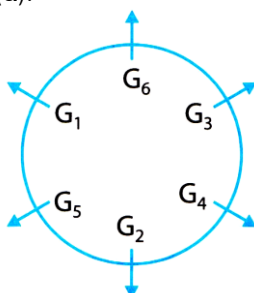
2. (a): The correct arrangement is :

P	T	R
S	Q	U

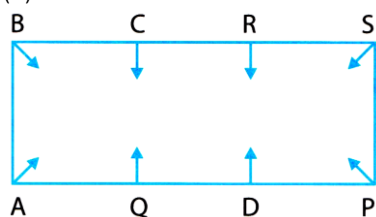
3. (b)



4. (d):



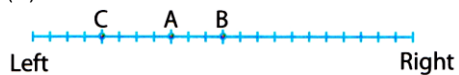
5. (a):



6. (a):

Sports Name	Hockey	Football	Cricket	Baseball
Geeta	✓	✓		✓
Upma	✓		✓	
Sonia		✓	✓	
Radha			✓	✓

7. (d):



8. (c): The right position of the friends:



9. (c): The arrangement will be $P^{\wedge} ?^{\wedge}, P^{\wedge} P^{\wedge}, P_i$. |
 10. (b) : The sequence of ranks from first to seventh was:

D	?	?	?	G	A	B
1 st	2 nd	3 rd	4 th	5 th	6 th	7 th

2nd, 3rd and 4th ranks were taken by candidates C, E and F in any order.

11. (c): Heights in ascending order:
 $R < P < Q < T$ and $R < S < Q$
 i.e., $R < P < S < Q < T$
 or $R < S < P < Q < T$
 12. (a): Ages in descending order:
 Manav > Ravi > Dinesh = Paras > Mukesh.
 13. (d) : Heights of the girls in descending order are:
 Manvi > Asha > Radha > Ganga > Sheila.
 14. (b): The sequence becomes:
 $C > D > E > A > B$ or $D > C > E > A > B$
 15. (a)

Students	Subjects	Stay in
P	English	PG
Q	History/Statistics	Home
R	Philosophy	Home
S	Physics	Hostel
T	Mathematics	PG
U	History/Statistics	Hostel

16. (b)

Students	Subjects	Stay in
P	English	PG
Q	History/Statistics	Home
R	Philosophy	Home
S	Physics	Hostel
T	Mathematics	PG
U	History/Statistics	Hostel

17. (c)

Students	Subjects	Stay in
P	English	PG
Q	History/Statistics	Home
R	Philosophy	Home
S	Physics	Hostel
T	Mathematics	PG
U	History/Statistics	Hostel

18. (b)

Students	Subjects	Stay in
P	English	PG
Q	History/Statistics	Home
R	Philosophy	Home
S	Physics	Hostel
T	Mathematics	PG
U	History/Statistics	Hostel

19. (d): Weights in ascending order: D, E, A, C B.
20. (d) Weights in ascending order: D, E, A, C B.
21. (b) Weights in ascending order: D, E, A, C B.
22. (c) Weights in ascending order: D, E, A, C B.
23. (d) Not Available
24. (a) Not Available
25. (d) Not Available
26. (b) Not Available
27. (d) Not Available
28. (d) Not Available
29. (d) Not Available
30. (c) Not Available
31. (a) Not Available
32. (c) Not Available
33. (c) Not Available
34. (c) Not Available
35. (a) Not Available