



CHAPTER

5

PUZZLE TEST

A few of the questions in the Logical Reasoning section are put in the form of puzzles involving certain number of items, be it persons, or things. The candidate is required to analyse the given information, condense it in a suitable form and answer the questions asked.

TYPE 1: CLASSIFICATION TYPE QUESTIONS

This type consists of questions in which certain items belonging to different groups or possessing different qualities are given along with some clues with the help of which the candidate is required to group and analyse the given items and answer the questions accordingly.

EXAMPLES:

1. Directions: *Read the following information carefully and answer the questions given below*

- (i) Five students Sujit, Randhir, Neena, Mihir and Vinay have total five books on subjects Physics, Chemistry, Maths, Biology and English written by authors Gupta, Khanna, Harish, D'souza and Edwin. Each student has only one book on one of the five subjects.

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TYPE 2: COMPARISON TYPE QUESTIONS

In such type of questions, clues are given regarding comparisons amongst a set of persons or things with respect to one or more qualities. The candidate is required to analyse the whole information, form a proper ascending/descending sequence, and then answer the given questions accordingly.

EXAMPLES:

Read the following information and answer the questions given below it:

There are five friends— Sachin, Kunal, Mohit, Anuj and Rohan. Sachin is shorter than Kunal but taller than Rohan.

Mohit is the tallest.

Anuj is a little shorter than Kunal and little taller than Sachin.

4. Who is the shortest?

- a) Rohan b) Sachin c) Anuj d) Kunal.

5. If they stand in the order of their heights, who will be in the middle?

- a) Kunal b) Rohan c) Sachin d) Anuj.

6. If they stand in the order of increasing heights, who will be the second?

- a) Anuj b) Sachin c) Rohan d) Kunal.

7. Who is the second tallest?

- a) Sachin b) Kunal c) Anuj d) Rohan.

8. Who is taller than Anuj but shorter than Mohit?

- a) Kunal b) Rohan c) Sachin d) Data inadequate.

SOLUTION:

Let us denote the five boys by the first letter of their names, namely S, K, M, A and R

Then, $R < S < K < M$ and $S < A < K$

$\therefore R < S < A < K < M$

ANSWER :

1. (a) 2. (d) 3. (b) 4. (b) 5. (a)

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TYPE 3: SEQUENTIAL ORDER OF THINGS

In this type of questions, some clues are given regarding the order of occurrence of certain events. The candidate is required to analyse the given information, frame the right sequence, and then answer the questions.

EXAMPLE:

Read the following information and answer the questions below:

- (i) Eight doctors P, Q, R, S, T, U, V & W visit a charitable dispensary everyday except on holiday i.e. Monday.
- (ii) Each doctor visits for one hour from Tuesday to Sunday except Saturday. The timings are from 9 am to 1 pm and 2 pm to 6 pm; 1 pm to 2 pm is the lunch break.
- (iii) On Saturdays, the dispensary is open only in the morning i.e., 9 am to 1 pm and each doctor visits for only half an hour.
- (iv) No other doctor, visits the dispensary before doctor Q and after doctor U.
- (v) Doctor W comes immediately after lunch break and is followed by R.
- (vi) S comes in the same order as P in the afternoon session.

1. Doctor P's visit is between the visit of which of the following pairs of doctors?

- a) S and V
- b) U and W
- c) R and W
- d) R and U.

2. At what time the visit of doctor R is over on Sunday?

- a) 1 pm
- b) 3 pm
- c) 4 pm
- d) 5 pm.

3. At what time the visit of doctor T would be over on Saturday?

- a) 10 am
- b) 11 am
- c) Either 10 or 11 am
- d) Data inadequate.

4. If the lunch break and subsequent visiting hours are reduced by 15 minutes, at what time doctor U is expected to attend the dispensary?

- a) 3:15 pm
- b) 4 pm
- c) 4:15 pm
- d) 4:45 pm.

SOLUTION:

We first form the sequence of visit using (iv), (v) and (vi). From (iv), we know that Q visits first and U visits last. From (v), we know that W visits first after break and is followed by R.

From (vi), we know that P visits after break.

Thus, the sequence of visits after break becomes WRPU.

Also, S has the same position in the morning session as P in the afternoon session. So, sequence of visit before break is Q, T/V, S, V/T.

ANSWER :

1. (d) 2. (c) 3. (c) 4. (b)

TYPE 4: SELECTION BASED ON GIVEN CONDITIONS

In such type of questions, few essential criteria for selection of a group of items are given. The candidate has to keep these conditions in mind and make the required selections as per the directions given in each question.

EXAMPLE:

I. Study the following information carefully and answer the questions below it:

From among six boys *A, B, C, D, E, F* and five girls *P, Q, R, S, T* a team of six is to be selected under the following conditions:

- (i) A and D have to be together.
- (ii) C cannot go with S.
- (iii) S and T have to be together.
- (iv) B cannot be teamed with E.
- (v) D cannot go with P.
- (vi) B and R have to be together.
- (vii) C and Q have to be together.

1. If there be five boys in the team, the lone girl member is

- a) P b) Q
- c) R d) S.

2. If including P, the team has three girls, the members are

- a) BCFQR b) ADEST
- c) ADBST d) BFRST.

3. If the team including C consists of four boys, the members of the team other than C are

- a) ADEPQ b) ABDQR
- c) DEFAQ d) BEFRQ.

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4. If four members including E have to be boys, the members other than E are

- | | |
|----------|-----------|
| a) ABCQR | b) ADFST |
| c) BCFQR | d) ACDFQ. |

5. If four members have to be girls, the members of the team are

- | | |
|-----------|------------|
| a) BCPQRS | b) BFPRST |
| c) BCQRST | d) BCPQRT. |

SOLUTION:

1. (b) In a team of six if five boys are to be selected then both A and D together are selected. If C is selected, a girl Q will be selected.

From B and E, one has to be selected. So, we select E because B will be accompanied by a girl. The fifth will be F. So, the only one left is Q in the team ACDEFQ.

2. (a) If P is included, D and hence A cannot be included. If Q is selected, C has to be selected and so S cannot be selected implies T can't be selected. The third girl can be R. With R, B will be selected but with B, E cannot be selected. So, the sixth member can be F only i.e., the team becomes PQCRBF.

3. (b) If team contains C, Q will be included. If another girl included is R, B will be there and hence E cannot be there. A and D have to be together. So they are also included, and only F can be excluded. Thus, the team is CQRBAD.

4. (b) If E is included, B cannot be included A and D have to be together. So they are both included. Without B, R will not be there. With D, P cannot be there. So, two girls together can be only S and T. If S is there, C cannot be there. So the fourth boy can be F alone. Thus, the team becomes EADFST.

5. (b) In four girls, S and T are taken together. With S, C cannot be there. So, Q will not be there. If P is included, D and hence A can't be there. If R is included, B will be there and hence E can't be there. So, only F can be there. Thus, the team is STPRBF.

TYPE 5: FAMILY-BASED PROBLEMS

In such type of questions, some clues are given regarding relationship among different members of a family and their professions, qualities, dresses, preferences, etc. The candidate is required to analyse the whole information and then answer the given questions accordingly.

EXAMPLE:

Directions: Read the following information carefully and answer the questions below:

- (i) There is a group of six persons A, B, C, D, E and F from a family. They are Psychologist, Manager, Lawyer, Jeweller, Doctor, Engineer.
- (ii) The Doctor is grandfather of F who is Psychologist
- (iii) The Manager D is married to A
- (iv) C, the Jeweller is married to Lawyer
- (v) B is the mother of F and E
- (vi) There are two married couples in the family.


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1. What is the profession of E?

- a) Doctor b) Jeweller
c) Engineer d) Psychologist.

2. How is A related to E?

- a) Brother b) Uncle
c) Father d) Grandfather.

3. How many male members are there in the family?

- a) 1 b) 3
c) 4 d) Cannot be determined.

4. What is the profession of A?

- a) Doctor b) Lawyer
c) Jeweller d) Manager.

5. Which of the following is one of the pairs of couples in the family?

- a) AB b) A C
c) AD d) Cannot be determined.

SOLUTION:

Given F is a Psychologist

B is mother of F and E means, E is brother/sister of F. There are only two married couples in the family. Since, D is married to A, so C, the Jeweller, who is married to the Lawyer will be married to B. Again, the Manager D is married to A means A is the doctor and Grandfather of F and E.

Also, no one else is an Engineer. So, E is an engineer.

ANSWER :

1. (c) 2. (d) 3. (d) 4. (a) 5. (c)