Pattern Completion

Pattern completion concepts form the foundation of cognitive psychology and are essential for solving a wide range of reasoning and intelligence problems. Understanding the fundamental concepts of pattern completion is essential for students to excel in their placement examinations.

Understanding the Concepts of Pattern Completion

Pattern completion refers to the ability to identify and recreate missing parts or elements within a given pattern or design.

It involves analyzing the existing elements and predicting or reconstructing the missing portion based on the observed pattern.

Pattern completion is a cognitive skill that requires visual perception, spatial reasoning, and an understanding of symmetry and geometric relationships.

The following are the important pattern completion concepts:

1. Rotational Symmetry Through an Angle of 90°

In this concept, the pattern exhibits rotational symmetry, specifically a 90° rotation. This means that when a quarter turn is applied to the pattern, it remains unchanged or repeats itself.

For Example:

If a square is divided into four equal parts, and three of the parts are given, pattern completion would involve determining the missing part by rotating the given parts by 90° to recreate the complete square.

2. Diagonally Opposite Parts are Similar

In this concept, the pattern exhibits symmetry along the diagonals. The parts or elements located diagonally opposite each other in the pattern share similarities or mirror each other.

For Example:

If a pattern consists of a series of squares with specific elements in each square, pattern completion would involve identifying the missing element by considering the diagonal symmetry and matching the corresponding element from the opposite side.

3. Adjacent Parts are Laterally / Vertically Inverted Images

In this concept, the pattern contains adjacent parts that are inverted images of each other, either laterally (horizontally) or vertically.

For Example:

If a pattern consists of a row of shapes where each shape has a distinct feature, pattern completion would involve determining the missing shape by considering the inversion relationship between adjacent shapes.

The missing shape would be an inverted image of its adjacent shape along the specified axis.

4. Based on Certain Design and Pattern

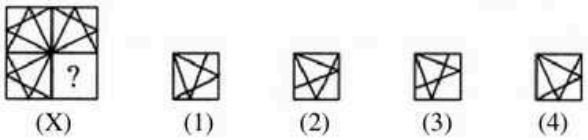
In this concept, pattern completion relies on specific design principles or recurring patterns observed in the given pattern.

For Example:

If a pattern consists of a sequence of numbers or symbols arranged in a particular order, pattern completion would involve identifying the missing number or symbol by discerning the underlying design or pattern governing the sequence.

EXERCISE

1. Identify the figure that completes the pattern.

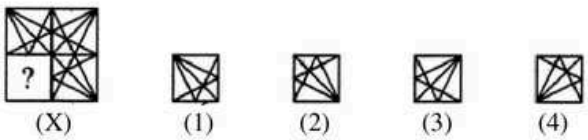


A. 1
B. 2
C. 3
D. 4

2. Identify the figure that completes the pattern.

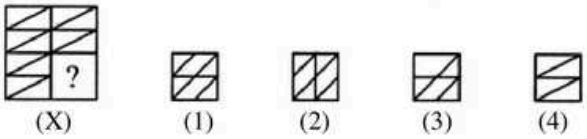
A. 1
B. 2
C. 3
D. 4

3. Identify the figure that completes the pattern.



A. 1
B. 2
C. 3
D. 4

4. Identify the figure that completes the pattern.



A. 1
B. 2
C. 3
D. 4

5. Identify the figure that completes the pattern.

A. 1
B. 2
C. 3
D. 4

Answer Key

1. D

2. C

3. D

4. D

5. B

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