# Figure Formation & Analysis

**In this topic, a question is one of the following types**:

(i) Formation of triangles/square/rectangle etc. either by joining of three figures after choosing them from the given five figures or by joining any other pieces after selecting them from given alternatives.

(ii) Making up a figure from given components.

(iii) Making up a three dimensional figure by paper folding.

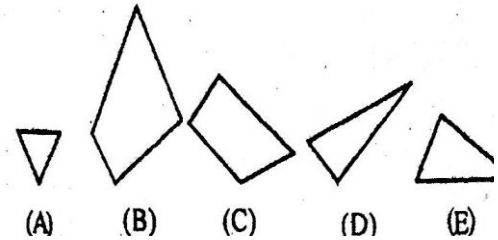
(iv) Rearrangement of the parts of given figure.

(v) Fragmentation of key figure into simple pieces.

**TYPE-I:** Formation of triangles/square/rectangle etc. either by joining of three figures after choosing them from the given five figures or by joining any other pieces after selecting them from given alternatives.

EXAMPLE 1.

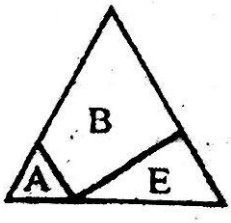
A set of five figures (A), (B), (C), (D) and (E) are followed by four combinations as the alternatives. Select the alternative which represents the combination of figures which if fitted together, will form a complete triangle.




(a) BCD (b) ABD

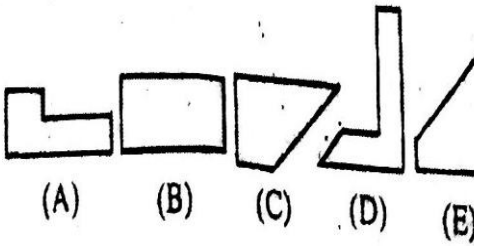
(c) CDE (d) ABE

**Sol.** (d) If figures A, B and E are fitted together, the resultant figure will be triangle.




EXAMPLE 2.

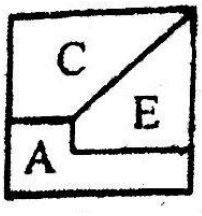
A set of five figures (A), (B); (C), (D) and (E) are followed by four combination as the alternatives. Select the alternative which represents the combination of figures which if fitted together, will form a complete square.




(a) ABC (b) ACD

(c) ACE (d) CDE

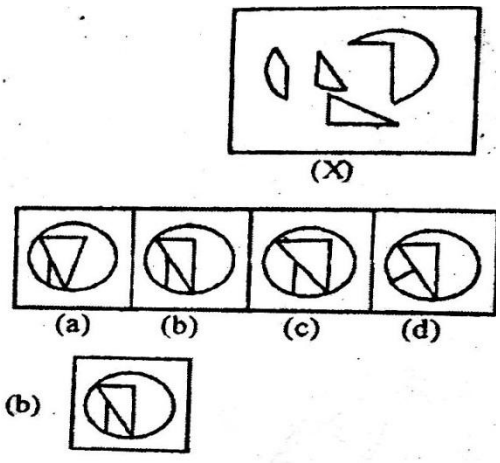
Sol. (c) Since we have to construct a square, therefore, f1 select a piece which contains a right angle between the adjacent edges. Then try to fit another piece in its hold spaces. If it doesn't fit then select another piece this procedure with different pieces. Similarly find the piece to get a completed square.




**TYPE-II: Making up a figure from given components**

EXAMPLE 3.

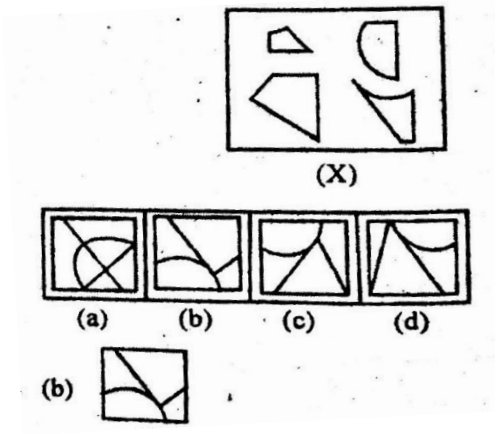
Find out which of the alternatives (a), (b), (c) and (d) can formed from the pieces given in box 'X'.




Sol. (b)

EXAMPLE 4.

Find out which of the alternatives (a), (b), (c) and (d) can formed from the pieces given in box 'X'.

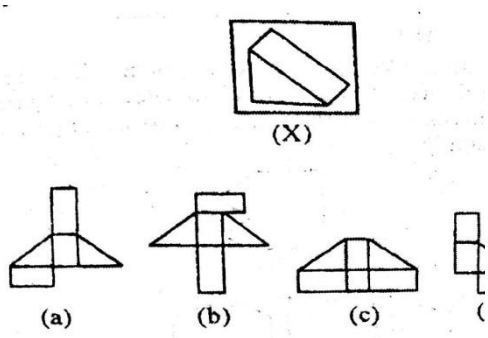



Sol. (b)

**TYPE-III:** Making up a three dimensional figure by paper folding. In this type, we have to analyze when a paper folded along the lines, how a three dimensional figure look like. Sometimes a key figure is given which is made by folding one of the four figures given in alternatives. We have to determine which figure can be used to create the key figure

EXAMPLE 5.

A figure 'X- is given. You have to choose the correct figure given in the alternatives, when folded along the lines will produce the given figure 'X'.



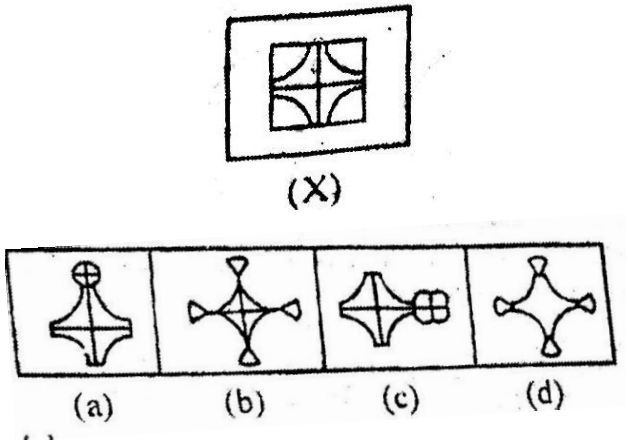

Sol. (a)

**TYPE- IV:** Rearrangement of the parts of given figure.

In this type of questions, a key figure is given. We have to identify the figure from alternatives that is a rearrangement of parts of key figure.

EXAMPLE 6.

Which figure is the rearrangement of the parts of the given figure.

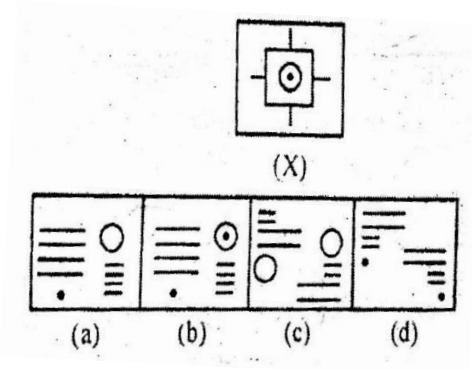



Sol. (a)

**TYPE-V:** Fragmentation of key figure into simple pieces. This type is opposite to TYPE-II. In this type, a key figure is given and every alternatives has different pieces. We have to select the set of pieces that car make the given key figure.

EXAMPLE 7.

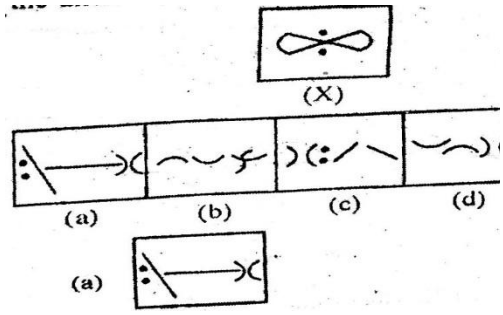
Find out which of the alternatives will exactly make up the key figure (X)




Sol. (a)

EXAMPLE 8.

In the following-, question a key figure is given. Each alternatives contains various pieces. Find out which of the alternatives will exactly, made up the key figure.




Sol. (a)

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