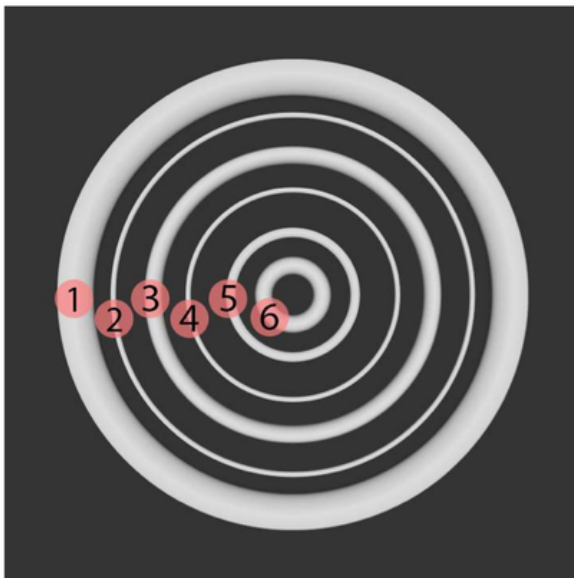


Q.01 Which of the options will replace the question mark?



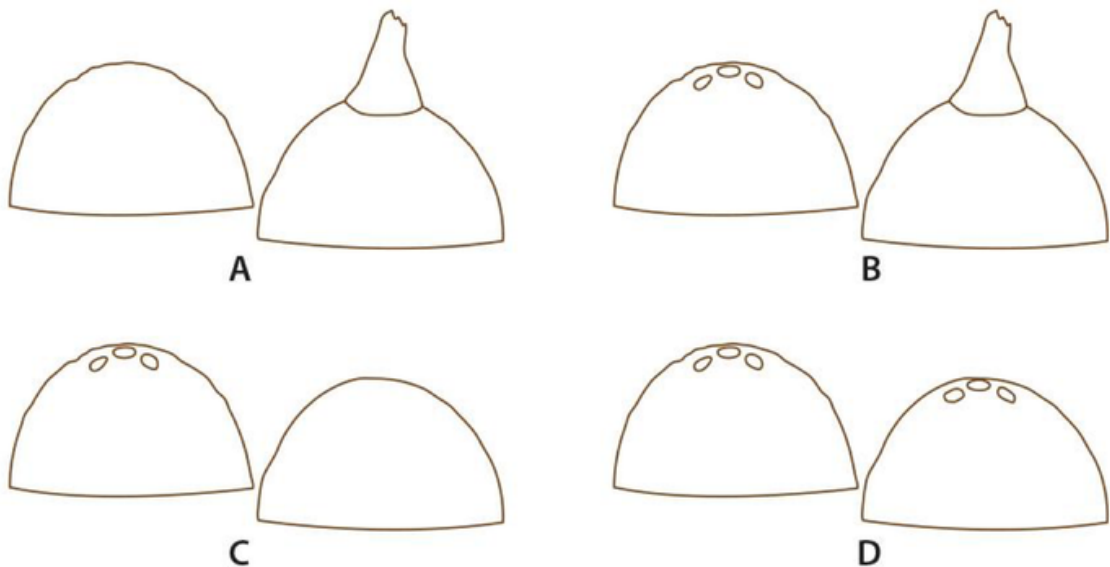
- A. TATA
- B. AAAAAA
- C. TAAT
- D. TTT

Q.02 Six concentric white rings, each of equal thickness but having different diameters, are positioned on different planes in space. A one-point perspective view of the rings is shown below. Based on this view, which of the option(s) is/are TRUE?

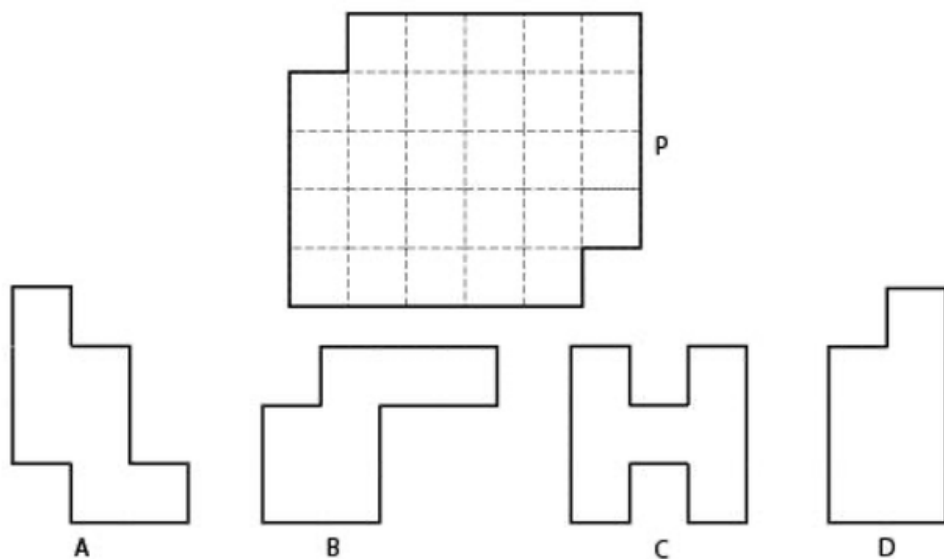


- A. Rings 6 and 3 are closer to the viewer compared to ring 5
- B. Rings 2 and 4 are at equal distance from the viewer
- C. Ring 1 is the nearest to the viewer
- D. Ring 5 is the farthest from the viewer

Q.03 Shown below is a coconut broken into two pieces. Identify the correct representation(s) of the coconut.



Q.04 Figure P can be created by tiling 4 identical pieces. The pieces should not overlap while tiling. Which of the pieces shown in the options can be used to create figure P, assuming that you can rotate and flip them?



Q.05 Rep-tile is a shape that can be dissected into smaller copies of the same shape without leaving any remainder. For example a square can be cut into various numbers of smaller copies of square shape.

If no flip is allowed, which of the options is/are rep-tiles?



A



B

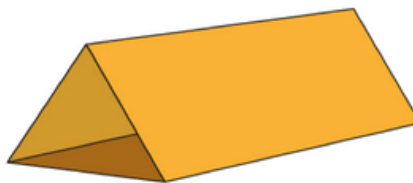


C

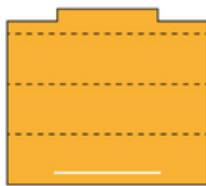


D

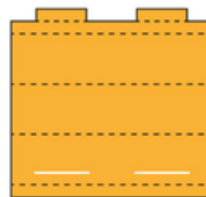
Q.06 Which of the options CANNOT be folded along the dotted lines into a package as shown in the image? For simplicity sake, cut lines have not been shown in the given schematic. The cross section of the package is an equilateral triangle.



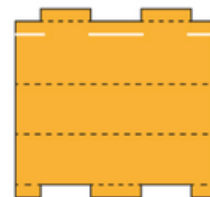
A



B

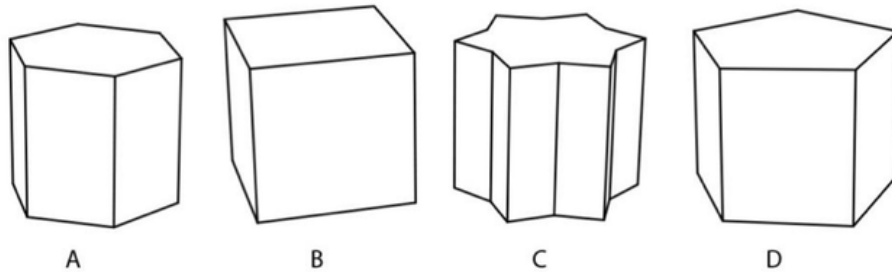


C



D

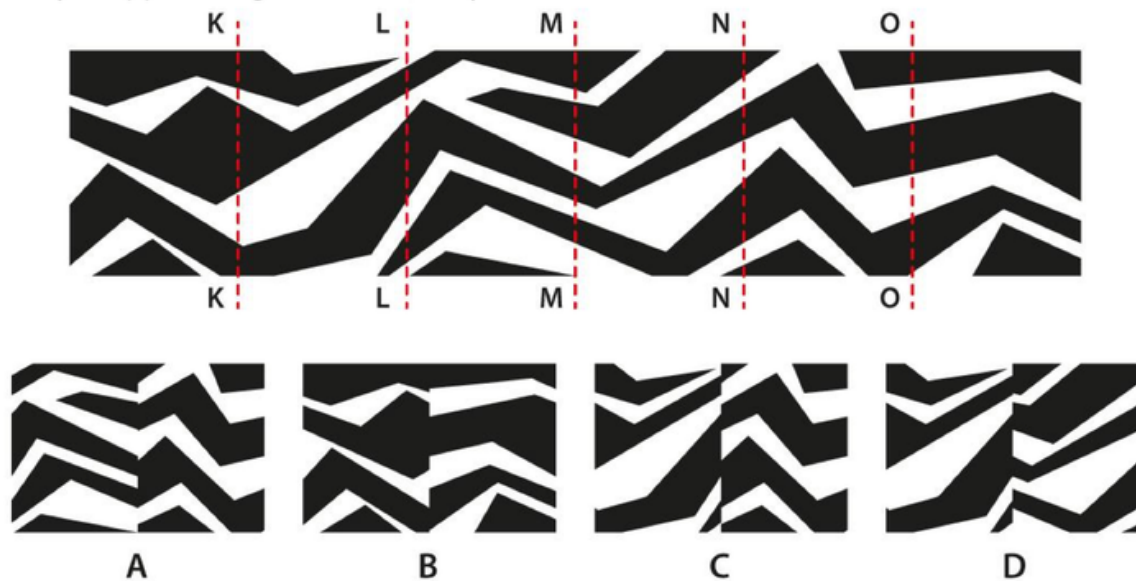
Q.07 If the geometric solid blocks shown below, are cut along a single flat plane, which of these can have the cross section of a regular hexagon (all sides equal)? Assume, all blocks are extruded from polygons with sides of equal length.



Q.08 Which of the following words is/are similar in meaning to 'Centre'?

- A. Heart
- B. Core
- C. Nucleus
- D. Nub

- Q.09** Shown below is a wooden partition with hinges along KK, LL, MM, NN and OO. The partitions are folded in such a way that only two panels are to be visible side by side at any time. Which of the given option(s) showing the folds is/are possible?



- Q.10** A square is cut into 7 pieces, as shown on the extreme left of the image. Identify which of the options can be made using all 7 pieces.

