ASSESSMENT

Chapter 14 : Visualising Solid Shapes
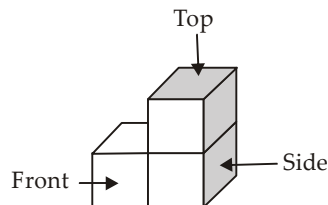
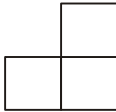**Max.Marks : 20**

A : **Choose the correct alternatives in each of the following :** **(1 × 5 = 5)**

1. The solid which is not a polyhedron is
   (*a*) pyramid   (*b*) prism   (*c*) cuboid   (*d*) cylinder

2. A square prism has .... vertices
   (*a*) 8   (*b*) 12   (*c*) 6   (*d*) 4

3. Which of the following can be the possible number of faces, edges and vertices, respectively of a polygon?
   (*a*) 5, 9, 7   (*b*) 8, 18, 12   (*c*) 8, 12, 7   (*d*) 8, 7, 12

4. The number of vertices of a cone is
   (*a*) 1   (*b*) 2   (*c*) 3   (*d*) 4

5. The top view of the given figures is

   (*a*)   (*b*)   (*c*)   (*d*) none of these

B : **Complete the following table, where F = number of faces, E = number of edges and V = number of vertices, and verify the Euler's formula F + V = E + 2.** **($2\frac{1}{2}$ × 6 = 15)**

S.No.	Figure	F	E	V	F + V	E + 2
1.	Tetrahedron					
2.	Pentagonal pyramid					
3.	Triangular prism					
4.	Square pyramid					
5.	Cuboid					
6.	Octahedron					