

- Q. Code: 751045 A pentagonal prism of base side 25 mm and axis length 55 mm rests on the (18) 2 **(b)** HP on its base in such a way that one of its base is parallel to VP and nearer to it. Draw its projections when the solid axis is parallel to VP and perpendicular to HP.
- A hexagonal prism of base side 25 mm and axis length 50 mm rests on the (18) 3 3 3. (a) HP on its base in such a way that one of its rectangular face is parallel to VP. It is cut by a plane inclined at 50° to the base and bisecting the solid axis. Draw the front view, sectional top view and true shape of the section. (**OR**) A cylinder of diameter 50 mm and axis length 65 mm is cut by a plane 3 3

- **(b)** (18) perpendicular to VP and inclined at 60° to the HP into two equal parts. Draw the development of the lateral surface of the truncated solid.
- 4. (a) Three square rods of 30 mm x 30 mm cross section and lengths 100 mm, (18) 3 100 mm, and 60 mm are so nailed that they form letter 'H'. Draw the isometric view of the letter 'H'.

(**OR**)

Draw the orthographic projection for the given fig.1. **(b)**



FIG.1

(18) 3 4

Q. Code: 751045 5

3

A hexagonal prism of base side 25 mm and height 50 mm is resting with its (18) **5. (a)** base on the GP such that one of its rectangular faces is inclined at 30° to the PP and vertical edge nearer to PP is 15 mm behind it. The station point is 45 mm in front of the PP, 70 mm above the GP and lies in a central plane, which is 15 mm to the left of the vertical edge nearer to the PP. Draw the perspective view of the solid.

(OR)

A square pyramid of base side 30 mm and altitude 40 mm rests on its base (18) 5 **(b)** on the ground plane such that one of its base sides is parallel to the picture plane and 10 mm infront of it. The station point is 50 mm infront of the picture plane, 25 mm to the left of the axis of the pyramid and 55 mm above the ground plane. Draw the perspective view of the pyramid.

$\frac{PART-B (1 x 10 = 10 Marks)}{(Q.No.6 is compulsory)}$

Marks	CO	RBT
		LEVEL

Draw the isometric view for the given orthographic projections shown (10) 6. 4 4 figure.2.





3

Q. Code: 751045