Attach the Question Paper along with the Answer Sheet. 
Strictly follow the BIS standards for lettering, lines and dimensioning. 
Construction lines to be retained 

All Dimensions are in mm.

Time: 3 Hours 
MAX. MARKS: 50

Answer ALL the questions [(5×10) = 50]

UNIT I

1. Draw the projection of following points:
   (a) Point A, 10mm in front of VP and 45mm above HP
   (b) Point B, 10mm above HP and 25mm behind VP
   (c) Point C, 35mm below HP and 30mm behind HP
   (d) Point F, 45mm away from the reference planes and is in the third quadrant
   (e) Point G, 20mm below HP and VP

   (OR)

2. The mid-point of the line AB 75mm long is 25mm above HP and 40mm in front of VP. It is inclined at 30° to HP and 50° to VP. Draw the Projection.

UNIT II

3. A square lamina ABCD of side 40 rests on the ground on one of its corner. The plane is inclined at an angle of 30° to the ground and diagonal DB, in plan, inclined at 45° to the VP and parallel to HP. Draw its projection.

   (OR)

4. A pentagonal pyramid of base side 35mm and height 65mm is resting on the ground on one of its base edges with the axis parallel to both HP and VP. Draw the projections.

UNIT III

5. A cube of edge length 35 mm rests on the HP on one of its corners with a solid diagonal perpendicular to the VP. Draw its projections.

   (OR)

6. A pentagonal prism of size 40 with axis length 50 rests on one of its longer edges on HP with its axis parallel to HP and VP. The rectangular face contained by the resting edge is inclined at 40° to HP. Draw its projection.
UNIT IV

7. A hexagonal pyramid of base side 30mm and axis height 80mm is lying on the ground on its
base with the a base edge parallel to the VP. It is cut by a plane, perpendicular to the VP,
inclined at 45° to the HP and meets the axis at appoint 25mm from the base. Draw the
sectional plan and true shape of the section.

(OR)

8. A square pyramid of base side 40mm, which is equally inclined to VP and height of 65mm is
cut by a plane perpendicular to VP, 40° to the HP meeting the axis at a distance of 30mm from
base. Draw the development of the lateral surface of the pyramid.

UNIT V

9. The frustum of a pentagonal pyramid base 30mm side and top face 15mm side has a height of
40mm. Draw its isometric view.

(OR)

10. Draw the Front view, Top view and Side view of the given pictorial drawing with appropriate
dimensions.