## **Model Question Paper 1**

## First/Second Semester B.E. Degree Examination

## **COMPUTER AIDED ENGINEERING DRAWING**

(COMMON TO ALL DDANGUES)

Time: 3 Hours		(COMMON TO ALL BRANCHES)		<b>Max. Marks : 100</b>
Note:	<ol> <li>Answer three full questions</li> <li>Draw to actual scale</li> </ol>		<ul><li>2. Use A4 sheets supplied</li><li>4. Missing data, if any, may</li></ul>	y be assumed suitably

1.a) (i) A point is 30 mm in front of VP, 20 mm above HP and 25 mm in front of LPP. 10 marks Draw its projections and name the side view. (ii) A line AB 80mm long has its end A 20mm above HP and 30mm in front of VP. It is inclined at 30° to HP and 45° to VP. Draw the projections of the line and find 20 marks apparent lengths and apparent inclinations. OR 1.b) A square lamina ABCD of 40 mm side rests on corner A such that diagonal AC appears to be at 45° to VP. The two sides BC and CD containing the corner C make equal inclination with HP. The surface of the lamina makes 30° with HP. Draw its 30 marks top and front views. 2. A square pyramid 35mm sides of base and 60mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis appears 40 marks to be inclined to VP at  $45^{\circ}$ . A rectangular prism of base 30mm x 20mm and height 60mm rests on HP on its 3.a) base with the longer base side inclined at  $40^{\circ}$  to VP. It is cut by a plane which is inclined at 45° to HP, perpendicular to VP and bisects the axis. Draw the 30 marks development of the remaining portion of the prism.

## OR

3.b) A sphere of diameter 30mm rests on the frustum of a hexagonal pyramid base 30mm, top face 18mm side and height 50mm such that their axes coincide. Draw 30 marks the isometric projection of the combined solids.