

**Model Question Paper 1**

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

**COMPUTER AIDED ENGINEERING DRAWING**

**Time: 3 Hours**

**(COMMON TO ALL BRANCHES)**

**Max. Marks : 100**

**Note:**    **1. Answer three full questions**      **2. Use A4 sheets supplied**  
               **3. Draw to actual scale**                    **4. Missing data, if any, may be assumed suitably**

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