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I/II Semester B.E. Degree Examination, January-2008
COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max. Marks: 100

- Office Use**
- 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
- 29 Q 1. a)i. A point M is 30 mm in front of VP and 20 mm above HP. Another point N is 15 mm behind VP & 25mm below HP. The horizontal distance between the points parallel to XY line is 50 mm. Draw the projections of the points M & N and Join their front and top views. Draw the right side view for the point N only. (10 Marks)
- 53 ii. A line AB has its end A 20 mm above the HP and 30 mm in front of the VP. The other end B is 60 mm above the HP and 45 mm in front of VP. The distance between end projectors is 70 mm. draw its projections. Determine the true length and apparent inclinations. (20 Marks)
- OR
- 111 b) A hexagonal lamina of sides 25mm rests on one of its corners on HP. The lamina makes 45° to HP and the diagonal passing through the corner on which it rests is inclined at 30° to VP. Draw its projections. (30 Marks)
- 166 Q 2. A square pyramid 35 mm side of base and 65 mm axis length rests on HP on one of its edges of the base which is inclined to VP at 30° . Draw the projections of the pyramid when the axis is inclined to HP at 45° . (40 Marks)
- 246 Q3. a) A cone of base diameter 50mm and height 60mm is resting with its base on HP. It is cut, as shown in the following front view of which is as shown in figure (1). Draw the development of the lateral surface of it. (30 Marks)
- OR
- 253 b) Draw the Isometric projection of a rectangular prism of 60 x 80 x 20 mm thick surmounting a tetrahedron of sides 45 mm such that the axes of the solids are collinear and at least one of the edges of both the solids are parallel to VP. (30 Marks)

Figure 1.

