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First/Second Semester B.E. Degree Examination, December 2016

COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max. Marks: 80

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- 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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Q.No.1 a. A point is lying on HP, 20mm behind VP and 25mm behind/infront/from RPP. Draw its projections and name the side view. **10 Marks**

b. Draw the projections of a line AB 100 mm long inclined at 45° to VP and 30° to HP. One end of the line is 20 mm above the HP and in the VP. Also determine the apparent length and inclinations. **15 Marks**

OR

Q.No.1 A regular hexagonal lamina of sides 30 mm is lying in such a way that one of its sides touches both the reference planes. If the lamina makes 60° with HP, draw the projections of the lamina. **25 Marks**

Q.No.2 A Pentagonal prism 25mm sides of base and 50mm axis length is suspended freely from one of its corners. Draw the projections of the prism when the axis appears to be inclined to VP at 45° . **30 Marks**

Q.No.3 A frustum of a pentagonal pyramid, smaller base sides 16 mm and bigger top face sides 32 mm and height 40 mm, is resting on the HP on its smaller base, with one of its base sides parallel to the VP. Draw the projections of the frustum and develop the lateral surface of it. **25 Marks**

OR

Q.No.3 A triangular pyramid base side 40mm and height 50mm is placed centrally on a square slab side 80mm and 20mm thick. Draw the isometric projection of the combination. **25 Marks**

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