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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

- 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.

Q.No.1 a. A point 30 mm above XY line is the front view of three points P, Q and R. the top view of R is 40 mm behind VP, the top view of Q is on XY line and the top view of P is 45 mm in front of VP. Draw the projections of points & state the quadrants in which the points are situated. **10 Marks**

b. The top view of a line AB, 80mm long measure 65mm and length of the front view is 50mm. The end A is on HP and 15mm in front of VP. Draw the projections. **15 Marks**

OR

Q.No.1 Draw the projections of a circular plate of negligible thickness of 50mm diameter resting on HP on a point A on the circumference, with its plane inclined at 45° to HP and the top view of the diameter passing through the resting point makes 60° with VP. **25 Marks**

Q.No.2 A Square pyramid 35mm sides of base and 65mm axis length rests on HP on one of its edges of the base. Draw the projections of the pyramid when the axis is inclined to HP at 45° and VP at 30° . **30 Marks**

Q.No.3 A rectangular prism of base size 25 mm x 40 mm and axis length 65 mm is resting on HP on its base with the longer side of base inclined at 30° to VP. It is cut by a plane inclined at 40° to HP and perpendicular to VP and passes through the extreme left corner of base. Draw the development of the lateral surface of the remaining portion of the prism. **25 Marks**

OR

Q.No.3 A frustum of cone base diameter 50mm, top diameter 25mm and height 50mm is placed Centrally on a cylindrical slab of diameter 100mm and thickness 30mm. Draw the isometric Projection of the combination. **25 Marks**
