

First/Second Semester B.E. Degree Examination, June 2017

COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max. Marks: 80

Note:

Q.No.1 a. A point G is 25 mm below HP & is situated in the third quadrant. Its shortest distance from the intersection of XY and X1Y1 is 45mm. Draw its projections and find its distance from VP. **10 Marks**

b. The top view of a line PQ is 70 mm and front view is 60 mm long. The end Q is nearer to both HP and VP than the end P and is 15 mm above HP and 20 mm in front of VP. Draw the projections of the line if the distance between projectors is 50 mm. **15 Marks**

OR

Q.No.1 A circular lamina of 30mm diameter rests on VP such that one of its diameters is inclined at 30° to VP and 45° to HP. Draw its top and front views in this position. **25 Marks**

Q.No.2 A Square prism 35mm sides of base and 60mm axis length rests on HP on one of its corners of the base such that the two base edges containing the corner on which it rests make equal inclinations with HP. Draw the projections of the prism when the axis of the prism is inclined to HP at 40° and appears to be inclined to VP at 45°. **30 Marks**

Q.No.3 A square pyramid base 40mm side and axis 65 mm long has its base on HP and all the edges of the base are equally inclined to VP. It is cut by an inclined section plane so as the truncated surface at 45° to its axis, bisecting it. Draw the development of the truncated pyramid. **25 Marks**

OR

Q.No.3 A frustum of a square pyramid base side 40mm, top face side 20mm and height 40mm is placed centrally on frustum of a cone base diameter 80mm, top diameter 60mm and height 20mm. Draw the Isometric projection of the combination. **25 Marks**

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