

--	--	--	--	--	--	--	--	--	--

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 'A' is 20 mm above HP and 25 mm in front of VP. Another point 'B' is 25 mm behind VP and 40 mm below HP. Draw their projections when the distance between their projectors parallel to XY line is zero mm. Add the right side view only to point 'B'. **10 Marks**

b. A line PQ measures 80 mm in length. The point P is above HP and in front of VP by 10 mm and 15 mm respectively. The distance between the end projectors is 50 mm. The line is inclined to VP by 30°. Draw the projections of the line and specify its true inclination with HP. **15 Marks**

OR

Q.No.1 A square lamina ABCD of 40 mm side rests on corner A such that the diagonal AC appears to be at 45° to VP. The two sides AD and AB containing the corner A make equal inclination with HP. The surface of the lamina makes 30° with HP. Draw its top and front views. **25 Marks**

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

Q.No.3 A square pyramid of base 45 mm, altitude 70 mm is resting with its base on HP with two sides of the base parallel to VP. The pyramid is cut by a section plane which is perpendicular to VP and inclined at 40° to the HP. The cutting plane bisects the axis of the pyramid. Obtain the development of the lateral surfaces the truncated pyramid. **25 Marks**

OR

Q.No.3 A sphere diameter 40 mm is placed centrally on the flat face of the hemisphere diameter 60 mm. Draw the isometric projection of the combination. **25 Marks**

* * * * *