CBCS SCHEME

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15CED14/24

First/Second Semester B.E. Degree Examination, December 2018

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. Two points R and S are on HP. The point R is 35 mm in front of VP, while S is 50 mm behind VP. The line joining their top views makes an angle of 40° with XY. Find the horizontal distance between the two projectors. **10 Marks**

b. The top view of a line 75 mm long measures 50 mm. The end P is 30 mm in front of VP and 15 mm above the HP. The end Q is 15 mm in front of VP and above HP. Draw the projections of the line and find its true inclinations with HP and VP. **15 Marks**

OR

Q.No.1 The front view of a rectangular lamina of sides 30 mm x 20 mm is square of 20 mm sides. Draw the projections and determine the inclinations of the surface of the lamina with HP and VP. **25 Marks**

Q.No.2 A Pentagonal prism 25mm sides of base and 60mm axis length rests on HP on one of its edges of the base. Draw the projections of the prism when the axis is inclined to HP at 40° and VP at 30°. **30 Marks**

Q.No.3 A cube of side 40 mm is resting on HP with its base on HP such that one of its vertical faces are inclined at 30° to the VP. It is cut by a section plane perpendicular to VP, inclined to HP at an angle 45° and passes through the midpoint of the axis. Draw the development of the lower lateral surface of the cube. **25 Marks**

OR

Q.No.3 A rectangular pyramid of base- 40mm x 25mm and height 50mm is placed centrally on a cylindrical slab of diameter 80 mm and thickness 30 mm. Draw the projection of the combination of solids. **25 Marks**

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