

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

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 20 mm below the reference XY line is the top view of three points 'P', 'Q' and 'R', 'P' is 20 mm below HP, 'Q' is 35 mm above HP and 'R' is on HP. Draw the projections of the three points and state their positions and quadrants in which they are situated. **10 Marks**

b. A line AB 65 mm long has its end A 20 mm above the HP and 25 mm in front of the VP. The end B is 40 mm above the HP and 65 mm in front of the VP. Draw the projections of AB and show its inclinations with the HP and the VP. **15 Marks**

OR

Q.No.1 A square lamina of 40 mm side rests on one of its sides on HP. The lamina makes 30° to HP and the side on which it rests makes 45° to VP. Draw its projections. **25 Marks**

Q.No.2 A hexagonal pyramid 25 mm sides of base and 50 mm axis length rests on HP on one of its slant triangular faces. Draw the projections of the pyramid when the axis is inclined to VP at 45° . **30 Marks**

Q.No.3 A rectangular prism of base 30 mm X 20 mm and height 60 mm rests on HP on its base with the longer base side inclined at 40° to VP. It is cut by a plane inclined at 45° to HP, perpendicular to VP and bisects the axis. Draw the development of the lateral surface of the prism. **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**
