

USN 1

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First Semester B.E. Degree Examination, December 2017

COMPUTER AIDED ENGINEERING DRAWING

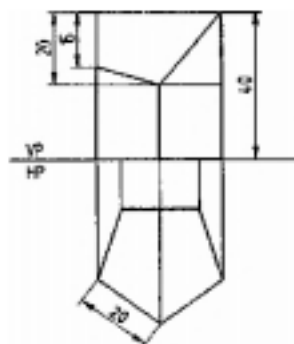
Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max. Marks: 100

Note: 1. Answer the following questions. 2. Use A4 sheets supplied.
3. Draw to actual scale. 4. Missing data, if any, may be assumed suitably.

1. a. A point G is 25 mm below VP & is situated in the third quadrant. Its shortest distance from the intersection of VP and VP is 45mm. Draw its projections and find its distance from VP. 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. 20 Marks
1. The top view of a square lamina of side 30 mm is a rectangle of sides 30mm x 20mm with the longer side being parallel to both HP and VP. Draw the top and front views of the square lamina. What is the inclination of the surface of the lamina with VP? 30 Marks
2. A Hexagonal prism 25mm diameter and 50mm axis length rests on HP on one of its edges. Draw the projections of the prism when the axis is inclined to HP at 45° and appears to be inclined to VP 40° . 40 Marks
3. A pentagonal prism of base sides 20 mm and height of 40 mm is resting with its base on HP with a base edge parallel to the VP. The prism is shown in the following front view. Draw the development of the lateral surface of the prism. 30 Marks



OR

3. An equilateral triangular prism base side 30mm and length 70mm is resting on its rectangular face on top of a square slab side 70mm and 25mm thick. Draw the isometric projection of the combination. 30 Marks