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First/Second Semester B.E. Degree Examination, June/July 2019

COMPUTER AIDED ENGINEERING DRAWING

Time: 3 Hours

(COMMON TO ALL BRANCHES)

Max. Marks: 100

- 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.

1. a. A point is 35 mm below HP, 15 mm behind VP and 25 mm behind / in front / from RPP. Draw its projections and name the side view. 10 Marks

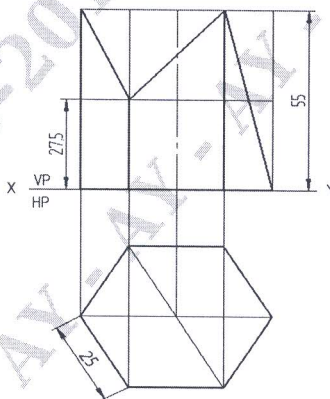
- b. The end A of a line AB is in HP and 25mm in front of VP. The end B is 10mm in front of VP and 50mm above HP. The distance between the end projectors when measured parallel to the line of intersection of HP and VP is 80mm. Draw the projections of the line AB and determine its true length and true inclinations with HP and VP. 20 Marks

OR

1. A mirror 30 mm x 40 mm is inclined to the wall such that its front view is a square of 30 mm side. The longer sides of the mirror appear perpendicular to both HP and VP. Find the inclination of the mirror with the wall. 30 Marks

2. A Tetrahedron of 55mm sides rests on one of its corners such that an edge containing that corner is inclined to HP at 50° and VP at 30°. Draw its projections. 40 Marks

3. A hexagonal prism of base side 25 mm and height 55 mm is resting on HP on its base, such that one of its base edge is parallel to VP. The prism is cut in this position as shown in the following front view. Draw the development of the lateral surface of the prism. 30 Marks



OR

3. A cone of base diameter 50mm and height 50mm is placed centrally on an equilateral triangular prism of side 100mm and 20mm thick. Draw the isometric projection of the combination. 30 Marks