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First Semester B.E. Degree Examination, November 2014

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 s ably.

a. A point 30 mm above XY line is the front view of three poin ,X) and R. The to w of R is 40 mm behind VP, the top view of Q is on ine and top view of poi .is 45 mm in front of VP. Draw the projectionkbiShe points & state the quadran hich the points are situated. (10 Marks)

b. The distanc ween the end projectors througn pre end points of a line AB is 60 mm. The en i 10 mm above HP and m in front of VP. The end B is 35 mm in front o P. The line AB appears 70 mm long in the front view. Complete the projections, Find the true length of the line and its inclinations with HP and VP. (20 Marks)

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1. A hexagonal lamina of sides4'30mm is resting on HP with one of its corners in VP and its surface inclined at an angle of 30^0 with VP. The diagonal passing through that corner which is in VP appears to be inclined at 40° to HP. Draw the projections of the lamina. (30 Marks)

2. A square pyr id 35 mm sides of base and 60 mm axi l gth is suspended freely from a cor r of its base. Draw the projections of the amid when the axis appe ar to be inclined to VP at 45°. (40 Marks)

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3. regular pentagonal prism of height 60mm and base edge 30mm rests with its base on HP. The vertical face closest to VP is 30° to it. Draw the devel nt of the truncated prism with its truncated surface inclined at 60° to its axis and bisecting it. (30 Marks)

or

3. A square prism base side-40mm, height-50mm is placed centrally on a cylindrical slab of diameter 100mm and thickness-30mm. Draw the isometric projection of the combination. (30 Marks)