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10CED14/24

First/Second Semester B.E. Degree Examination, May/June 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 suitably

Q1. a) A point A is on HP & 30mm in front of VP. Another point B is 20mm below HP and 20mm in front of VP. The distance between their projectors measured parallel to XY line is 50mm. Find the distance between their projectors measured parallel to XY line is 50mm. Find the distance between the front views of points A & B. **(10 Marks)**

b) A line AB 80mm long has its end A 20mm above the HP and 30mm in front of VP. It is inclined at 30° to HP and 45° to VP. Draw the projections of the line and find apparent lengths and apparent inclinations. **(20 Marks)**

Q1. Rectangular plate of negligible thickness of size 35mm x 20mm has one of its shorter edges in VP with that edge inclined at 40° to I-L. Draw the top view if its front view is a square of sides 20mm. **(30 Marks)**

Q2. A square prism 35mm sides of base and 60mm axis length is suspended freely from a corner of its base. Draw the projections of the prism when the axis appears to be inclined to VP at 45° . **(40 Marks)**

Q3. A frustum of a pentagonal pyramid, smaller base side 16mm and bigger top face sides 32mm and height 40mm, is resting on HP on its smaller base, with its base sides parallel to the VP. Draw the projections of the frustum and develop the lateral surface of it. **(30 Marks)**

OR

Q3. A frustum of cone base diameter 50mm, top diameter 25mm and height 50mm is placed centrally on a square slab side 80mm and thickness 30mm. Draw the isometric projection of the combination. **(30 Marks)**