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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 is lying on VP, 10 mm below HP and 30 mm behind / in front / 10 Marks
from LPP. Draw its projections and name the side view.

b. A line AB 65 mm long has its end A 25 mm above HP and 30 mm in 15 Marks
front of VP. The other end is 45 mm above HP and 50 mm in front of
VP. Draw the projections and determine its inclinations.

OR

Q.No.1 A rectangular lamina of 35 mm X 20 mm rests on HP on one of its 25 Marks
shorter edges. The lamina is rotated about the edge on which it rests till
it appears as a square in the top view. The edge on which the lamina
rests is inclined 30° to VP. Draw its projections and find its inclination
to HP.

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

Q.No.3 A square pyramid of 25 mm base edge and 50 mm height rests with its 25 Marks
base on HP with all of its base edges equally inclined to VP. It is cut by
a plane perpendicular to VP and inclined to HP at 60° , passing through
the extreme right corner of base. Draw the development of the lateral
surface of the pyramid.

OR

Q.No.3 The frustum of a square pyramid of sides 40 mm, top face 20 mm and 25 Marks
height 60 mm rest on the center of the top of a square block of side
60 mm and height 20 mm. The base edges of the pyramid are parallel to
the top edges of the square block. Draw the isometric projections of the
combination of solids.
