

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

1. a. A point is 30 mm behind VP, 30 mm above HP and 25 mm in front / 10 Marks  
behind / from LPP. Draw its projections and name the side view.

- b. Draw the projections of the line AB 100 mm long inclined at  $45^\circ$  to VP 15 Marks  
and  $30^\circ$  to HP. One end of the line is 20 mm above the HP and in the  
VP. Also determine the apparent length and inclinations.

**OR**

1. A hexagonal lamina of sides 25 mm rests on one of its corners on HP. 25 Marks  
The corner opposite to the corner on which it rests is 35 mm above HP  
and the diagonal passing through the corner on which it rests is inclined  
at  $30^\circ$  to VP. Draw its projections. Find the inclination of the surface  
with HP.

2. A square pyramid 35 mm sides of base and 60 mm axis length is 30 Marks  
suspended freely from a corner of its base. Draw the projections of the  
pyramid when the axis appears to be inclined to VP at  $45^\circ$ .

3. A square prism of base side 35 mm & height 55 mm rests with its base 25 Marks  
on HP and two faces equally inclined to VP. Draw the development of  
the lateral surfaces of the retained portions of the cut prism shown by  
dark lines in the figure.

**OR**

3. Three cubes of sides 60 mm, 40 mm, 20 mm are placed centrally one 25 Marks  
above the other in ascending order of their side. Draw the isometric  
projection of the combination.

\*\*\*\*\*