Total No. of Questions : 8] *[Total No. of Printed Pages : 2*

 Roll No .....

ME-111

B.E. I & II Semester

Examination, June 2017

Choice Based Credit System (CBCS)

Engineering Graphics

Time : Three Hours

Maximum Marks : 60

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. The end projectors of a line AB are 50mm apart, while those drawn for its H.T and V.T are 90mm apart. The H.T is 40mm in front of the V.P and the V.T is 80mm above the H.P. Draw the projections of AB, if its end A is 10mm above the H.P. Also determine its true length and inclinations with the reference planes.

2. The front view of a line AB measures 65mm and makes an angle of 45° with XY. A is in the H.P and the V.T of the line is 15mm below the H.P. The line is inclined at 30° to the V.P. Draw the projections of AB and find its true length and inclination with the H.P. Also locate its H.T.

3. A semicircular plate of 80mm diameter has its straight edge on the V.P and inclined at 30° to the H.P., while the surface of the plate is inclined at 45° to the V.P. Draw the projection of the plate.

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4. A Pentagonal pyramid of base edge 30mm and height 50mm is resting on one of its corners in H.P. Draw the projection when the axis is inclined at 45° to the H.P.

5. A square prism (25mm base side×60mm height) is kept on H.P with its axis vertical and two adjacent base sides equally inclined to V.P. It is cut by a section plane whose V.T. makes an angle of 30° with the reference line and bisects the axis. Draw sectional top view and true shape of section.

6. A hexagonal prism of 25mm base side and 50mm axis is resting on H.P on its base with two of its vertical faces perpendicular to V.P. It is cut by a plane inclined at 50° to H.P and perpendicular to V.P and meets the axis of the prism at a distance 10mm from the top end. Draw the development of the lateral surface of the prism

7. Draw the isometric projections of the frustum of a cone of 50mm base diameter, 25mm top diameter and 60mm height.

8. a) State a series of CAD command to draw a pentagon of 50mm side.
   b) Explain the following commands in brief:
      i) Move
      ii) Array
      iii) Offset

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