

Total Number of Pages : 02

Roll No.

FIRST SEMESTER

B.Tech. (ALL BRANCHES)

END SEMESTER EXAMINATION

NOV-DEC 2010

ME 117, ENGINEERING GRAPHICS

Time: 3 Hours

Max. Marks : 70

- Note :** (i) Attempt any **FOUR** questions.
(ii) Viva-voce is compulsory and carries 14 marks.
(iii) Assume suitable missing data, if any.

- Q.1 A line 50 mm long makes angle of 30° with HP and makes an angle 45° with VP. It's end A is 10 mm above the HP and 20 mm in front of VP. Draw the projections of AB, determine it's apparent inclination with the VP and also draw its traces. (14)
- Q.2 A thin sheet in the form of a regular pentagon of 25 mm edge rests on H.P on one of its edges. The plane of sheet is inclined at 45° to the HP while the edge on which it resting inclined to V.P at 30° . Draw its Front and Top views. (14)
- Q.3 Draw the projections of a regular pentagonal prism, side of the base 30 mm and 90 mm long, is resting on one of the base edge on horizontal plane and face inclined 45° to V .P. Its axis is parallel to VP. (14)
- Q.4 A right circular cylinder of diameter 30 mm and 65 mm long, is resting on its base. An auxiliary inclined plane inclined at 45° cuts the axis of the cylinder at 15 mm from the top. Draw the sectional top view and true shape of the section. (14)
- Q.5 Develop the lateral surface of a right circular cone of 50 mm base diameter and axis 60 mm long. It is cut by a cutting plane passing through its one edge inclined at 45° to the H.P. and perpendicular to the V.P. (14)
- Q.6 The figure 1 shows the top and front view of an object. Draw its isometric view. (14)