

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 AB, 75 mm long in length, is inclined at 30

o

to the H.P. and 45

o

to the V.P. Its one end A is in the H.P. and the end B is in the V.P. Draw its projections and determine its H.T. and V.T.

(14)

Q.2 Draw the projections of a thin circular plate of 50 mm diameter resting on the ground on a point A on the circumference. Its plane is inclined at 45

o

to the H.P. and plane of the diameter AB make 30

o

angle with the V.P.

(14)

Q.3 A right circular cylinder, of base diameter 60 mm and axis length 100 mm, is held on a point of its base circle in H.P. Draw the projections when axis is making an angle of 45

o

with the H.P. and 30

o

with the V.P.

(14)

Q.4 A right regular pentagonal pyramid, base 30 mm, axis 65 mm long, has its base on the horizontal plane

and an edge of the base parallel to V.P. An auxiliary inclined plane perpendicular to the H.P. and inclined at 45

o

to the V.P., cuts the solid at a distance of 12 mm from the axis. Draw its sectional 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 60mm long. It is cut by a cutting plane passing through its one edge inclined at 45

o

to the H.P. and perpendicular to the V.P.

(14)

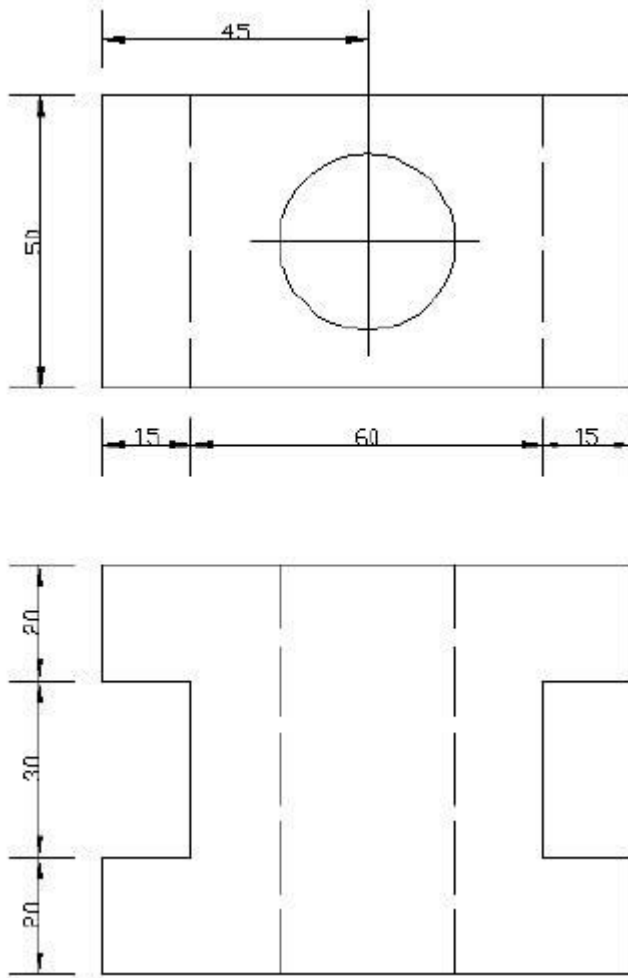
Q.6 The following figure 1, shows the side view and front view of a machine Block. Draw the isometric view of the block.

(14)

Plan View and Front View

Figure 1 :

Plan View and Front View of a machine Block Q.7 Viva - Voce (14)



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Q.1 A line AB, 75 mm long in length, is inclined at 30

o

to the H.P. and 45

o

to the V.P. Its one end A is 20 mm above the H.P. and 10 mm in front of the V.P. Draw its projections and determine its H.T. and V.T.

(14)

Q.2 A regular pentagonal plane ABCDE, of side 40 mm, has side AB in the H.P. making an angle of 30

o

with the V.P. The plane makes angle of 45

o

with the H.P. and the point D lies in the V.P. Draw the projections of the plane and find the angle made by the plane with V.P.

(14)

Q.3 Draw the top view and front view of a square pyramid, side of the base 35 mm axis 55 mm long, is freely suspended from one of the corners of its base with its axis in a vertical plane makes an angle of 45°

o

with V.P.

(14)

Q.4 A right circular cone 45 mm diameter, axis 65 mm long, is resting on its base on horizontal plane. It is cut by a plane which makes an angle of 45°

o

with V.P. and passing 15 mm from the top view axis. Draw the sectional front view and true shape of the section.

(14)

Q.5 Draw the Development of a hexagonal prism of 50 mm side and axis 60 mm height is resting on the H.P. It is sectioned by a section plane passing through a point 30 above the base along with axis, inclined at an angle of 30°

o

to the H.P. and perpendicular to the V.P.

(14)

Q.6 The following figure 1 shows the top view and front view of a cube over a circular disc. Draw the isometric view of the object.

(14)

Figure : 1 : Top View and Front View Q.7 Viva -
Voce (14)

