EC/EEE 124 (R-22)

Total No. of Questions : 10] [Total No.of Pages : 02

I/IV B. Tech. DEGREE EXAMINATIONS, AUGUST - 2023

Second Semester

EC / EEE

ENGINEERING GRAPHICS

Time : **Three Hours** Maximum : **70** Marks

Answer All Questions

Answer ONE question from each Unit. 5x14=70 M

UNIT - I

1. A string of 160 mm long is wound around the circumference of a circular disc of 60 mm dia. Draw the curve traced out by end of the string. When it is unwound completely keeping the string always tight.

(OR)

2. Inscribe a regular pentagon in a circle of 80 mm diameter.

UNIT - II

3. A midpoint of a line is 110 m long is 30 above HP and 40 mm in front of VP. The line is inclined at 30^o to the HP and 45^o to the VP. Draw the projection of the line.

(OR)

4. Draw the projections of the following points on the same ground line, keeping the projectors 25 mm apart.

   A, in the H.P. and 20 mm behind the V.P.

   B, 40 mm above the H.P. and 25 mm in front of the V.P.

   C, in the V.P. and 40 mm above the H.P.

   D, 25 mm below the H.P. and 25 mm behind the V.P.

UNIT - III

5. Draw the projections of a circle of 75 mm diameter having the end A of the diameter AB in the H.P., the end B in the V.P. and the surface inclined at 30^o to the H.P. and at 60^o to the V.P.

(OR)

6. Draw an equilateral triangle of 75 mm side and inscribe a circle in it. Draw the projections of the figure, when its plane is vertical and inclined at 30^o to V.P. and one of the triangle is inclined at 45^o to the H.P.

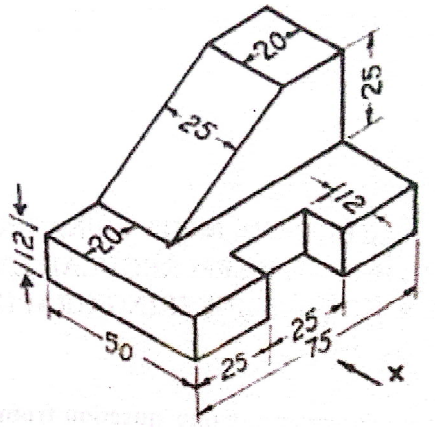
P.T.O.

UNIT - IV

7. A hexagonal pyramid, base 30 mm side and axis 50 mm long, has an edge of its base the on ground. Its axis is inclined at 30° to the ground and parallel to the V.P. Draw its projections.

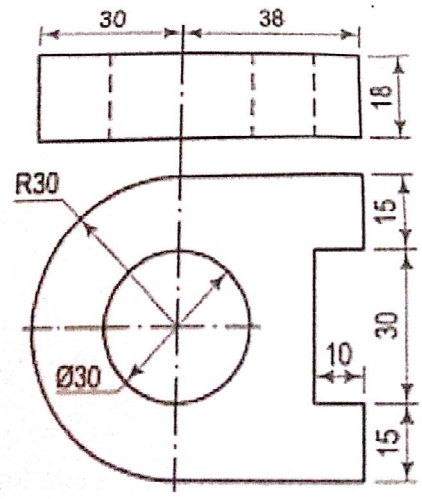
(OR)

8. Draw the front view, both side views and top view of the object as shown in figure below. All the dimensions are in mm.



UNIT - V

9. A hollow cylinder of 50 mm and 30 mm outside and inside diameter and 75 mm height stands vertically on a square prism of 100 mm side and 40 mm height. Draw the isometric projections of the two blocks.

(OR)

10. Draw the isometric view of the block, two views of which are shown in fig.