

COLLEGE OF ENGINEERING, PUNE

(An autonomous institute of Govt. of Maharashtra)

End Term Exam (Autumn 2011-12)

Engineering Graphics (Electrical Stream)

Programme: - F.Y. B. TECH (Morning Session)
Date: - 04/05/2012

Duration: - Three Hours
Marks: - 60

Instructions:

- 1) Question Nos.1, 3 and 4 are compulsory.
- 2) Solve any one question from question no. 2a) & 2b).
- 3) Assume suitable data if required.
- 4) Use of scientific calculator is not allowed.
- 5) Retain all the construction lines and external constructions.
- 6) Dimensioning, line work carry due credits.

Q.1) A C.I ANCHOR BRACKET is shown in **Figure no. 1**. Draw to scale full size, by using first angle method of projection -

- a) Sectional Front View along section A-A b) Top View and c) Left hand side view

(10 Marks)

Q.2a) The projectors drawn from the H.T and V.T of a straight line AB are 90 mm apart while those drawn from its ends are 60 mm apart. The H.T is 35 mm in front of the V.P. and the V.T. is 60 mm above the H.P. and the end A is 10 mm above the H.P. Draw the projections of line AB and determine its true length and inclinations with the reference planes.

(14 Marks)

OR

Q.2b) A pentagonal plate of sides 50 mm has a central equilateral triangular hole of 40 mm sides, with a side of plate and that of triangle parallel to each other. The plate is kept on H.P. on this side, the side being inclined at 30° to the V.P. If the highest point of the plate is 40 mm from the H.P, determine the angles the plate makes with the H.P and V.P. Project the triangular hole in all the views. Use first angle method of projection.

(14 Marks)

Q.3) **Figure no. 2** shows the F.V and T.V of an object. Draw its Isometric view from the origin O as shown in figure. Retain the construction lines.

(18 Marks)

Q.4) **Figure no. 3** shows the F.V. and T.V. of the object. Draw by the first angle method,

- a) Sectional F.V., b) T.V. & c) L.H.S.V

(18 Marks)

P.T.O

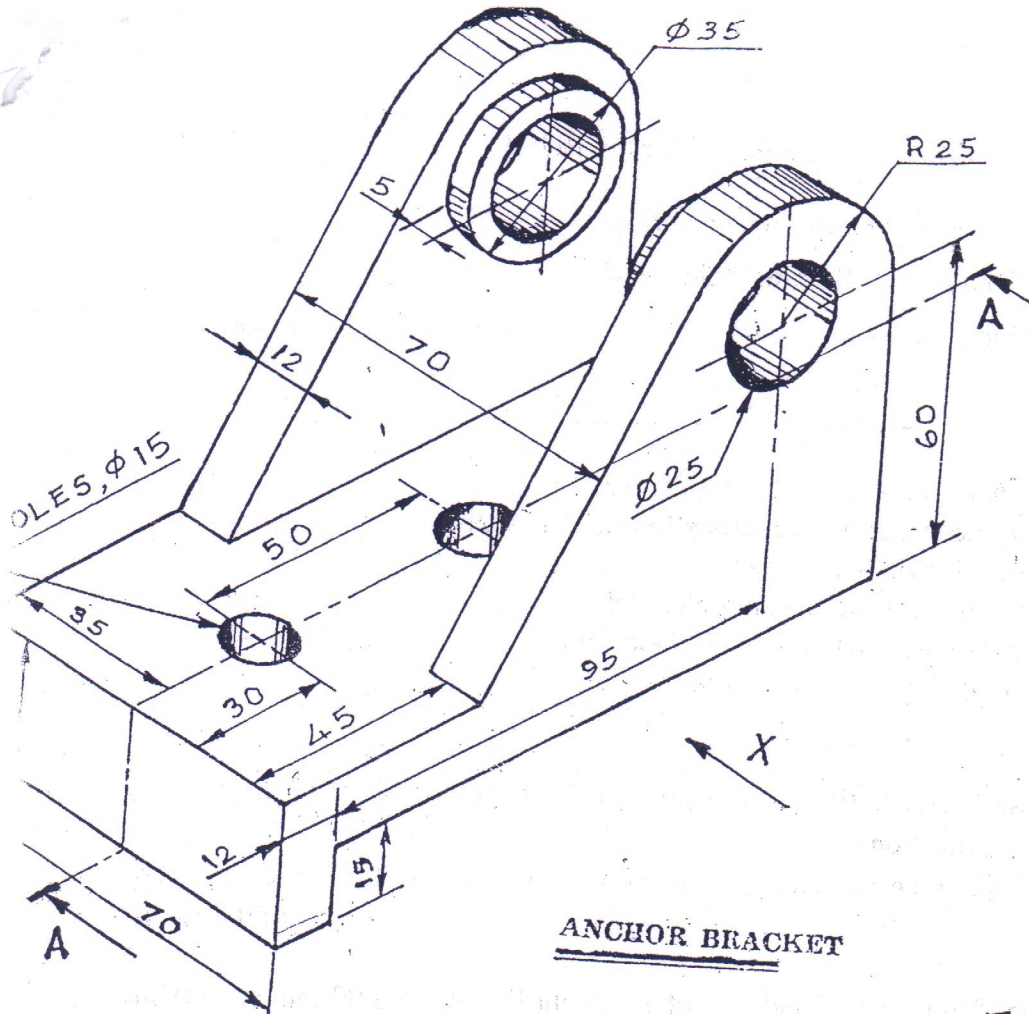


Figure no. 1

ANCHOR BRACKET

Figure no. 2

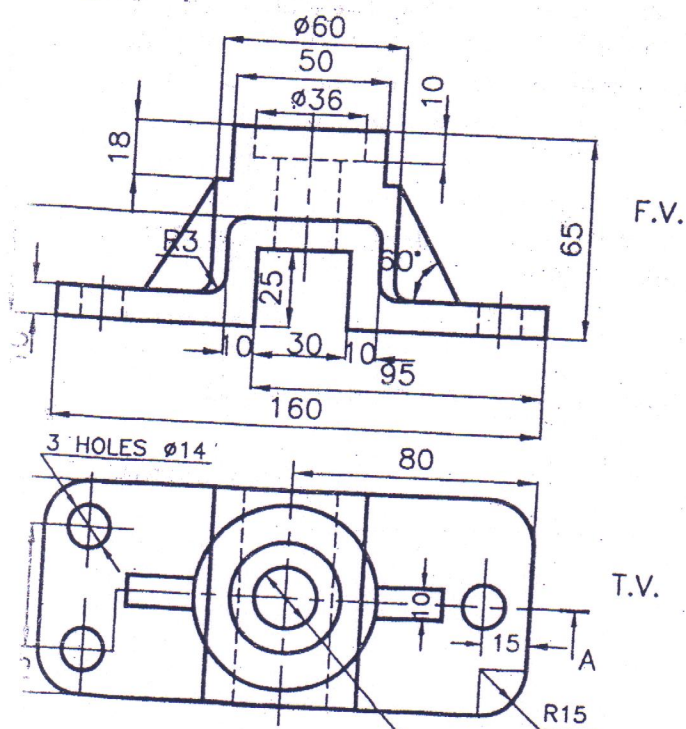
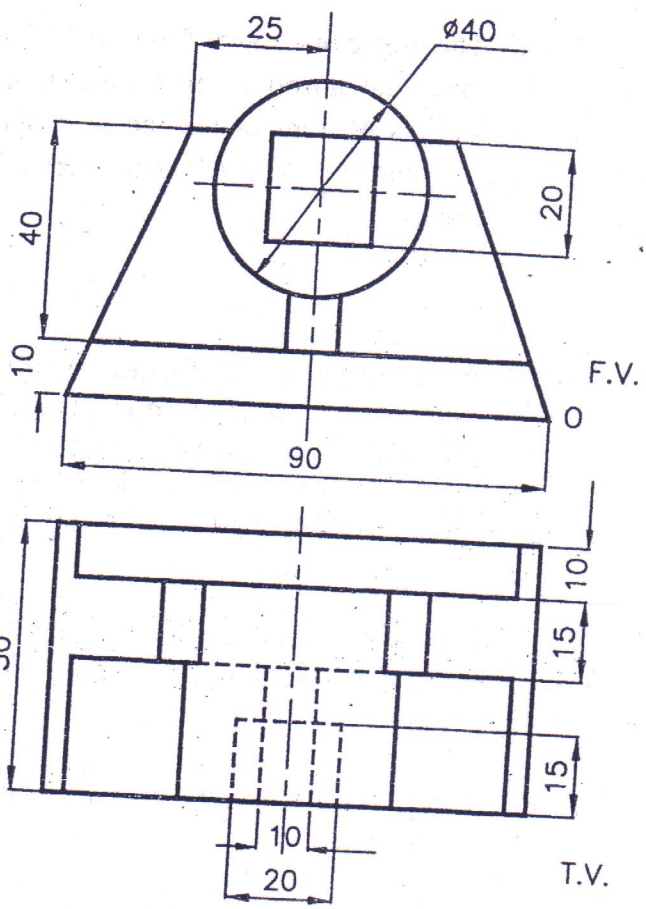


Figure no. 3