

COLLEGE OF ENGINEERING, PUNE

(An autonomous institute of Govt. of Maharashtra)

End Term Exam

Engineering Graphics

Programme: - F.Y. B. TECH (Morning Session)

Date: - / /

Duration: - Three Hours

Marks: - 60

Instructions:

- 1) Question No.1 is 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) **Figure no. 1.** shows the pictorial view of an object. Draw to scale full size, by using first angle method of projection -

a) Front View looking in the direction of arrow X b) Top View

(10 Marks)

Q.2a) End M of line MN, which is inclined at 46° to H.P and 20° to V.P is 15 mm above the H.P and it is in front of the V.P, while the end N is 60 mm in front of V.P and is above H.P. Draw the projections of the line, find its true length, H.T and V.T if its plan length is 70 mm.

(14 Marks)

OR

Q.2b) Draw the projections of a circle of 50 mm diameter resting in the HP on a point A on the circumference, its plane inclined at 45° to the HP and the diameter AB making 30° with the VP. 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 shows two views of a block. Draw the following using First angle method of projection ;

a) Sectional F.V. along section plane A-A b) Plan & c) R.H.S.V

(18 Marks)

P.T.O

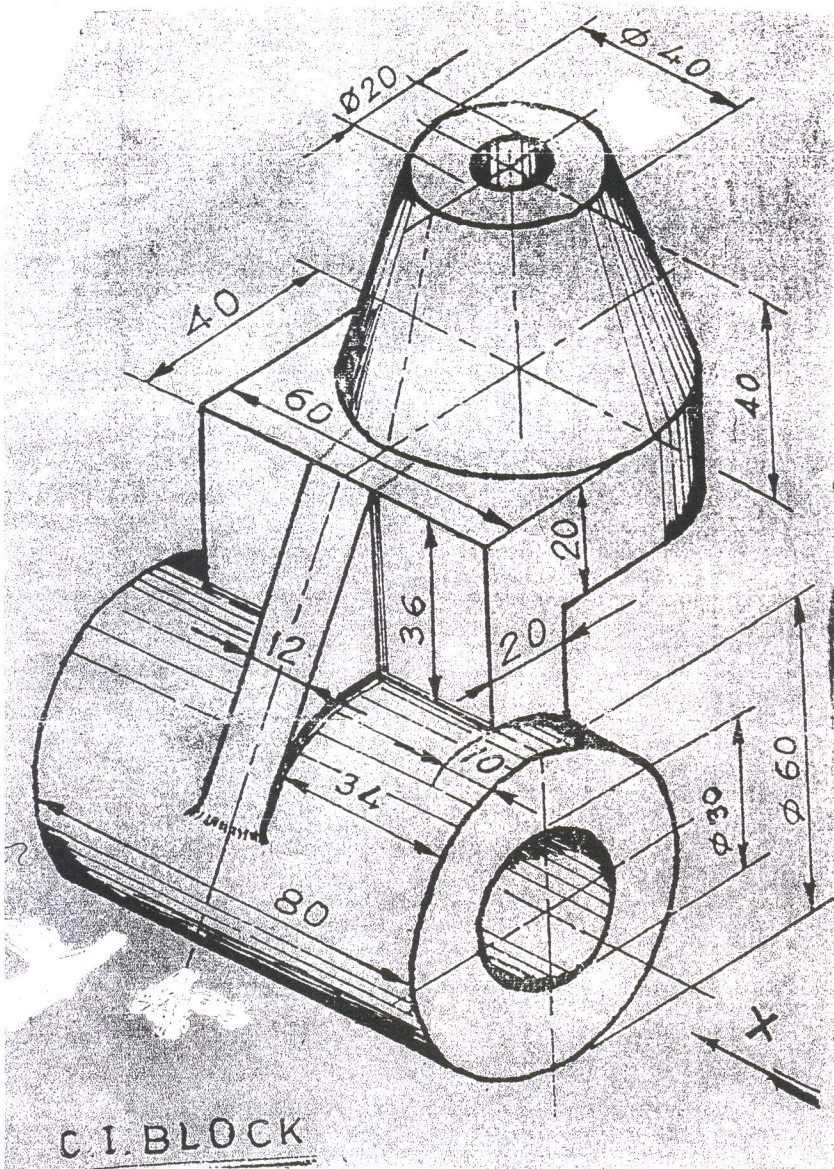


Figure No. 1 (Question 1)

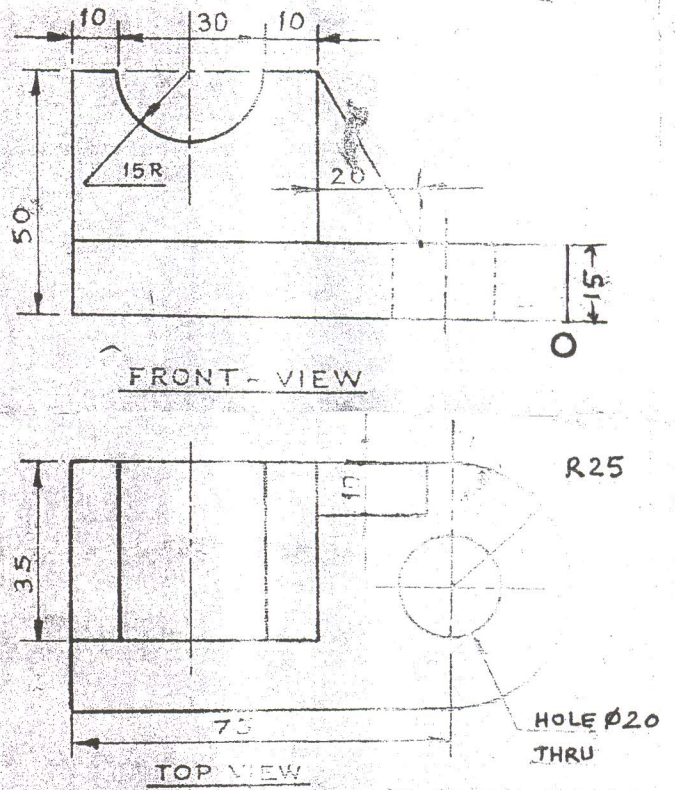


Figure No. 2 (Question 3)

Figure No. 3 (Question 4) ↓

