

# COLLEGE OF ENGINEERING, PUNE

(An autonomous institute of Govt. of Maharashtra)

End Term Exam (Autumn 2011-12)

## Engineering Graphics (Non-Electrical Stream)

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

Date: - 18/11/2011

Duration: - Three Hours

Marks: - 60

Instructions:

- 1) Question Nos.1, 3 & 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) Using first angle projection method draw-

a) Front View b) Top View and c) Sectional Left hand side view for the object shown in

**Figure no. 1**

(10 Marks)

Q.2a) The distance between the end projectors of a straight line AB is 50 mm and between projectors through H.T and V.T is 80 mm. The H.T of a line is 40 mm in front of V.P and V.T of a line is 50 mm above the H.P. The end A is 10 mm above H.P. Draw the projections of the line AB and find its true length and true inclinations with H.P and V.P. both.

(14 Marks)

OR

Q.2b) Draw, using first angle method, the projections of a rhombus having diagonals 125 mm and 50 mm long. The smaller diagonal of which is parallel to both the reference planes, while the other is inclined at 30 degrees to the H.P.

(14 Marks)

Q.3) Two views of an object, Elevation (F.V) and L.H.S.V, are as shown in **Figure no. 2**. Draw its Isometric view from the origin O shown in the 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

