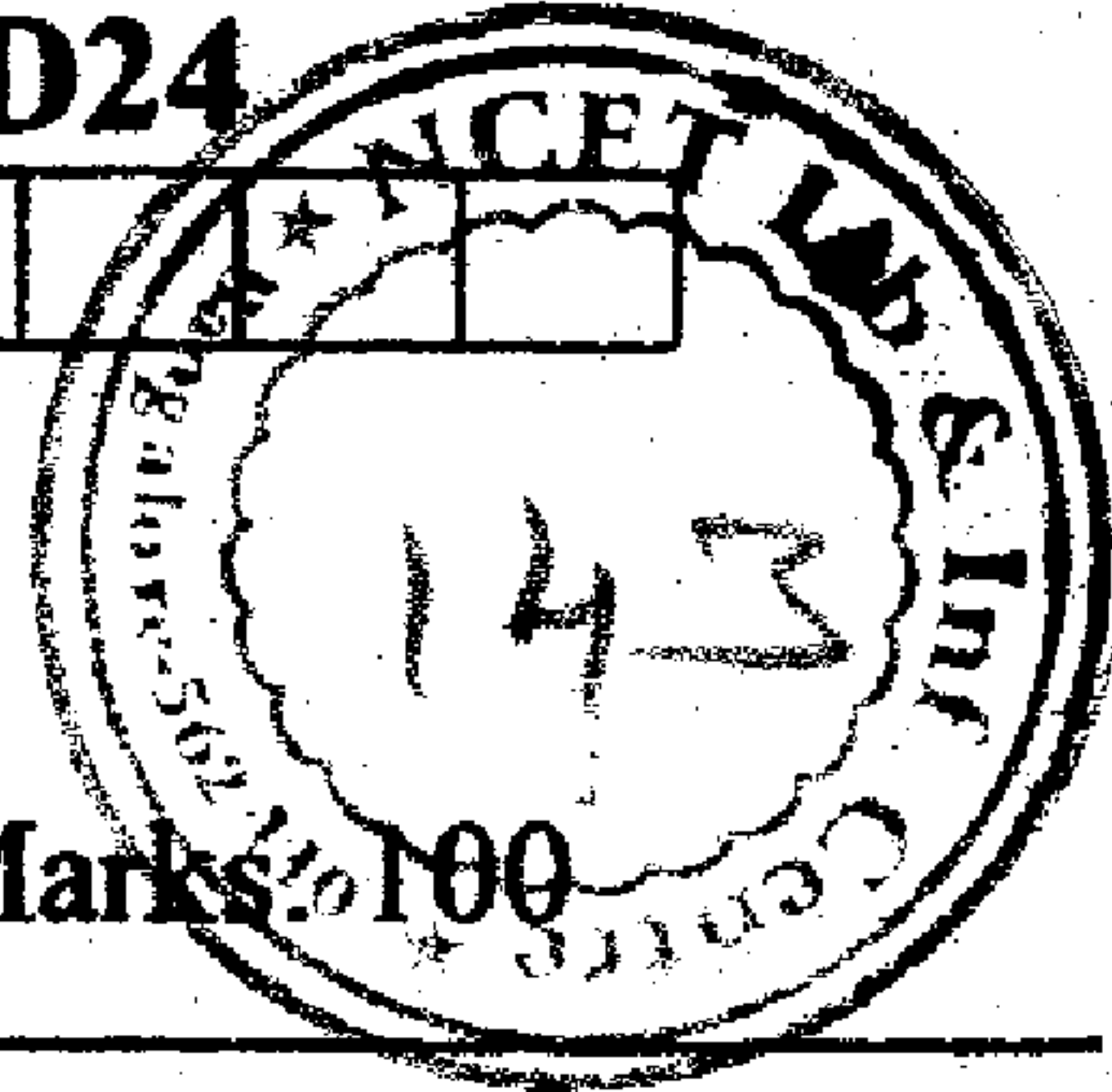


I/II Semester B.E. Degree Examination, May / June 2010
COMPUTER AIDED ENGINEERING DRAWING
(COMMON TO ALL BRANCHES)

Time: 3 Hours

Max. Marks: 100



- Office Use**
- Note:** 1. Answer three full questions
 2. Use A4 sheets supplied
 3. Draw to actual scale
 4. Missing data, if any, may be assumed suitably
- 28 Q 1. a)i. A point 30 mm above XY line is the front view of three points P, Q and R. The top view of R is 40 mm behind VP, the top view of Q is on XY line and top view of point P is 45 mm in front of VP. Draw the projections of the points & state the quadrants in which the points are situated. (10 Marks)
- 60 ii. A line AB measuring 70 mm has its end A 15 in front of VP and 20 mm above HP and the other end B is 60 in front of VP and 50 mm above HP. Draw the projections of the line and find the inclinations of the line with both the reference planes of projection. (20 Marks)
- 120 b) **OR**
 A pentagonal lamina of edges 25mm is resting on HP with one of its corners such that the plane surface makes an angle of 60° with HP. The two of the edges containing the corner on which the lamina rests make equal inclinations with HP. When the edge opposite to this corner makes an angle of 45° with VP and nearer to the observer, draw the top and front views of the plane lamina in this position. (30 Marks)
- 197 Q 2. A Hexahedron of 30 mm sides is resting on one of its corners on HP such that one of its solid diagonals is perpendicular to VP. Draw the projections of the solid. (40 Marks)
- 246 Q3. a) A cone of base diameter 50mm and height 60mm is resting with its base on HP. It is cut, as shown in the following front view of which is as shown in figure (1). Draw the development of the lateral surface of it. (30 Marks)
- 277 b) **OR**
 Following figure (2) shows the front and side views of a solid. Draw the Isometric projection of the solid. (30 Marks)

Figure 1.

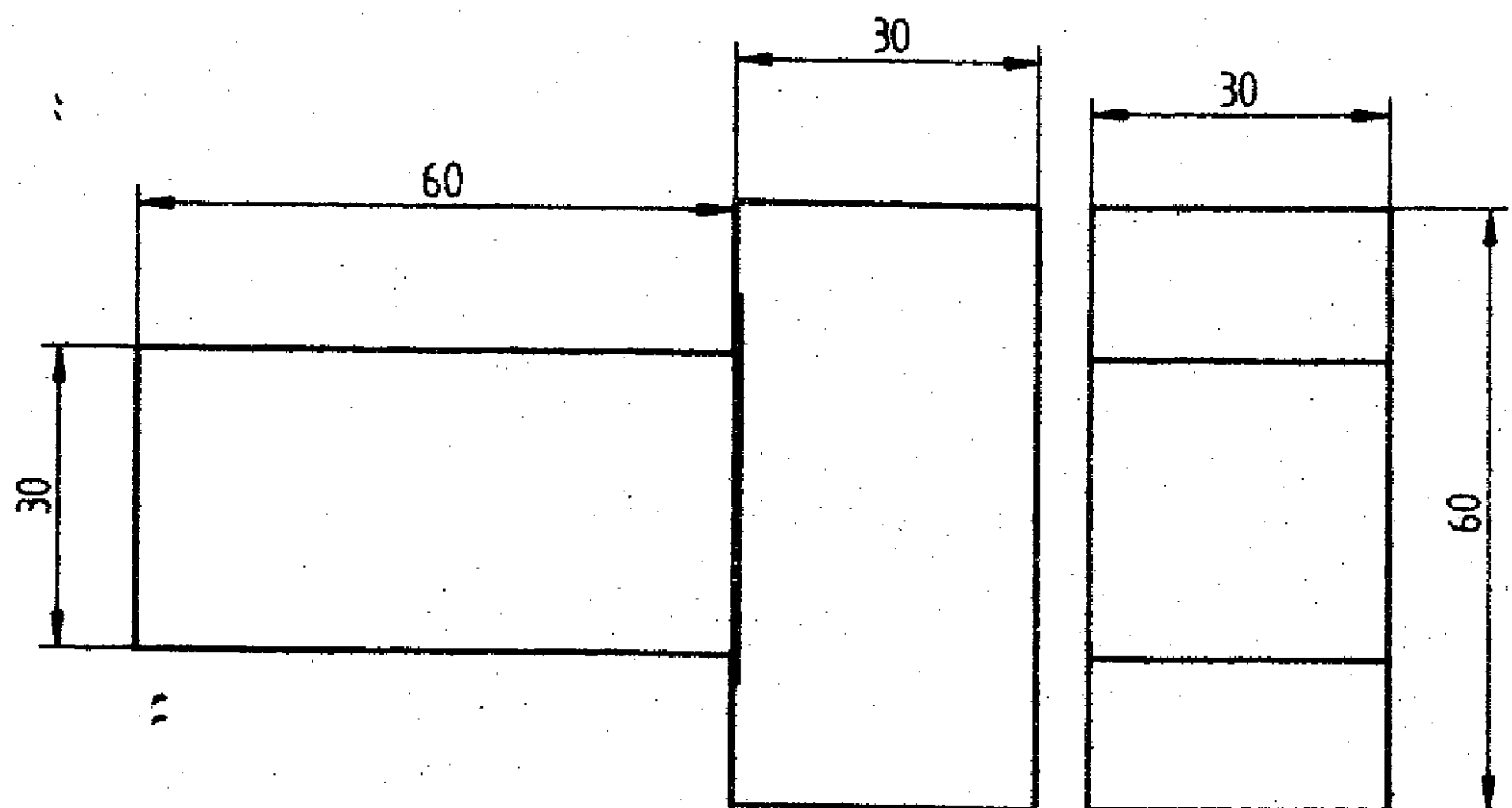
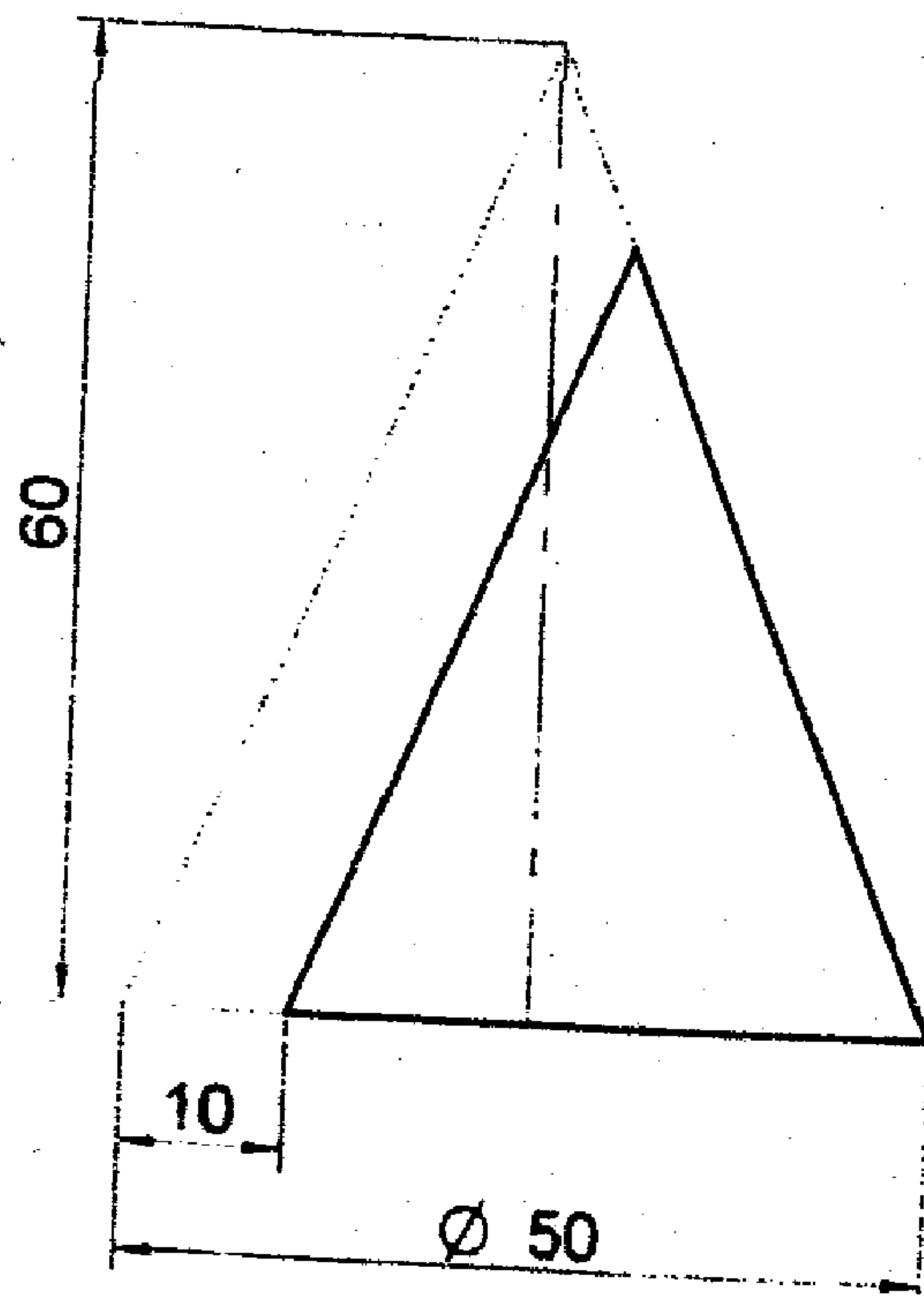


FIG-2