

Roll No. _____

THAPAR INSTITUTE OF ENGINEERING & TECHNOLOGY, PATIALA

Mechanical Engineering Department

B. E. (First Years) Groups K-T

Mid Semester Examination

March 14, 2018

Course No. : UTA015 (ED)

UTA008 (ED-1)

UTA001 (EGRA)

Instructors: SB/SKS/RKD
/DS/RSJ/ NK/VK/ATS/SS

Time: 2 Hours

Marks: 50 (Weightage: 25)

Important Instructions

- Attempt all questions.
- Missing data, if any, may be assumed appropriately.

- Q. 1 Line AB has end point A 15 mm above HP and 45 mm in front of VP. Distance between the end projectors through points A and B is 40 mm and point B is 40 in front of VP. If distance between front views of point A and point B is 60 mm, identify the quadrant/s in which point B may lie. Also draw corresponding projections (Front view and Top view) of the line AB. (8)
- Q. 2 Two points P and Q are in VP. Point P is 25 mm above HP while point Q is below HP. The distance between end projectors of points P and Q is 60 mm. Front view of line PQ makes an angle of 45° with the reference line XY. Draw projections of line PQ and find shortest distance of point Q from the reference line. (8)
- Q. 3 Draw the isometric projection (using isometric scale) of the object whose orthographic projections are given in **Figure 1** (17)

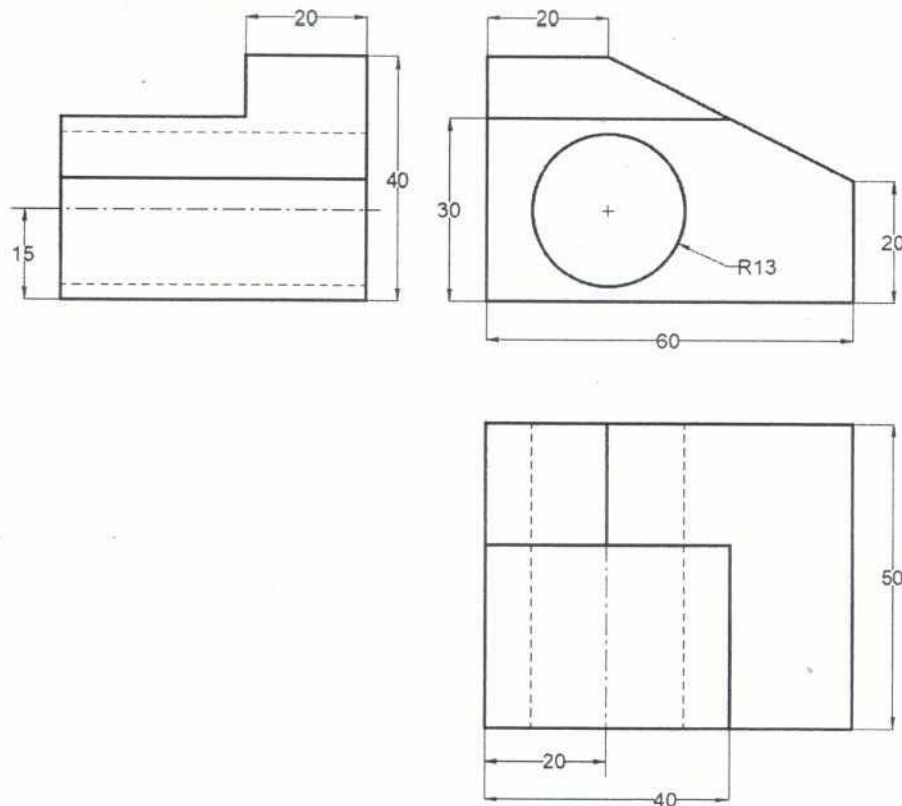


Figure 1

- Q. 4 Draw the orthographic projections (front, top and right hand side view) of the object, pictorially represented in **Figure 2**

(17)

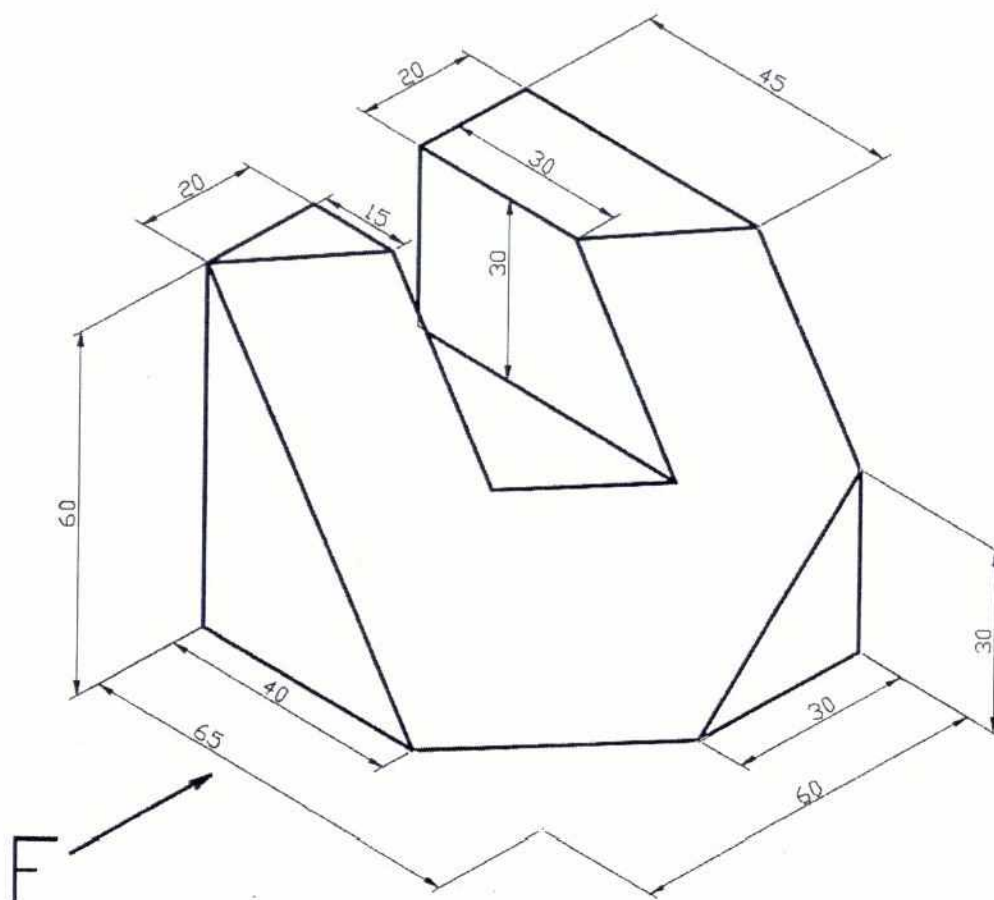


Figure 2