05   TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2074 Chaitra

| Exam.	Regular		
Level	BE	Full Marks	40
Programme	All (Except B. Arch.)	Pass Marks	16
Year / Part	I / I	Time	3 hrs.

Subject: - Engineering Drawing I *(ME401)*

✓ Candidates are required to give their answers in their own words as far as practicable.
✓ Attempt **All** questions.
✓ The figures in the margin indicate **Full Marks**.
✓ Assume suitable data if necessary.

1. Geometrically construct one complete rotation of an involute curve on the solid with cross sectional shape as given in figure below.   [5]
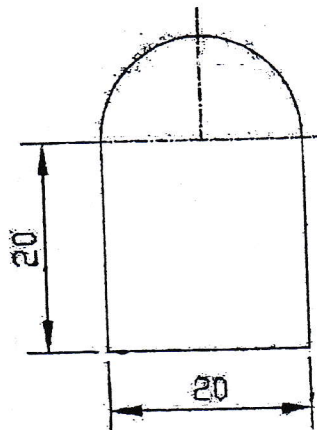
2. A regular pentagonal plane ABCDE of 20mm side has its edge BC resting on the HP. Its plane is perpendicular to the HP and inclined to the VP at 50°. Draw its projections when its corner nearer to the VP is 20 mm in front of the VP.   [5]

3. Draw orthographic projections with Sectional Side View, Top View and Front View of pictorial drawing as shown in figure below.   [14]
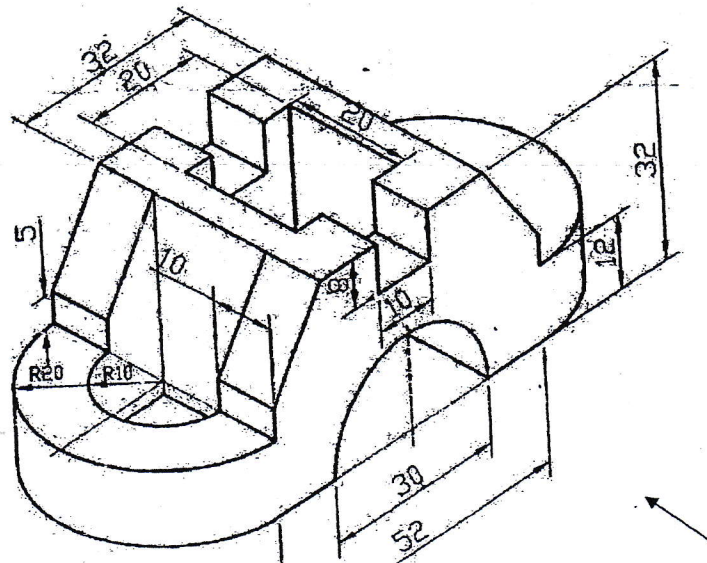
4. Make a complete orthographic drawing of a pyramid cut by a plane as shown in figure below. Find the true shape and construct the surface development of the surface of the solid. [10]
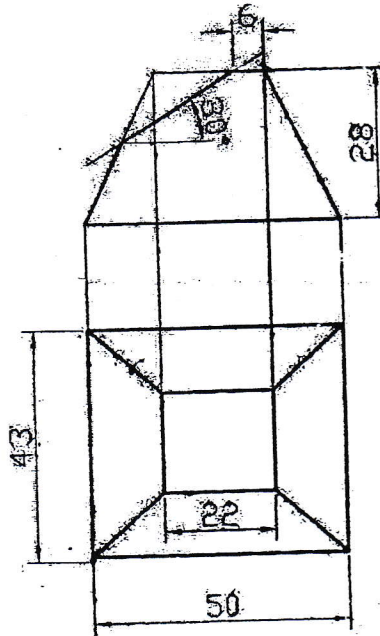
5. Draw the complete orthographic drawing for the intersection of hexagonal prisms as shown in figure below and complete the intersections. [6]

***