

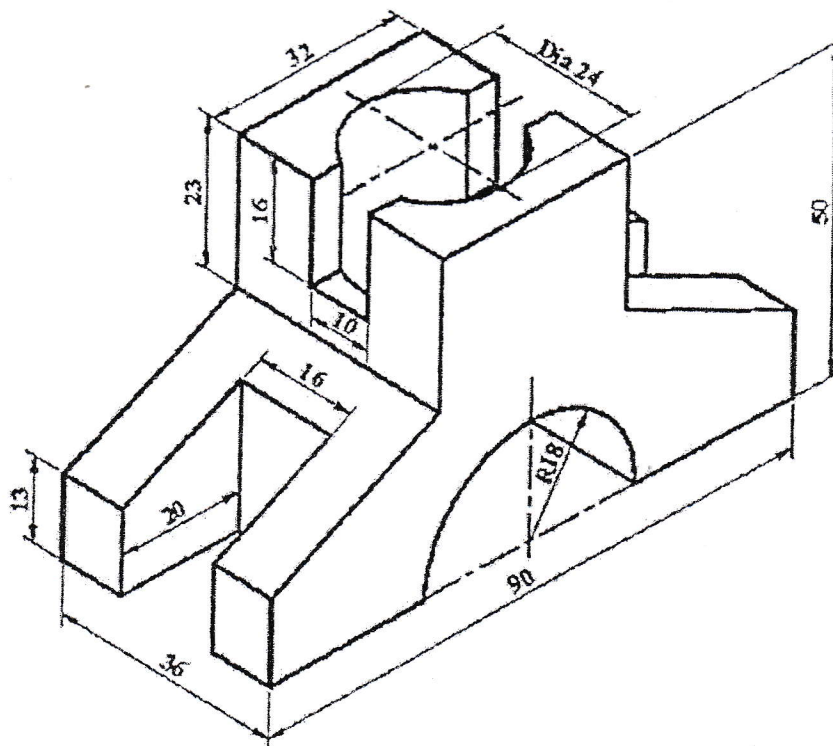
TRIBHUVAN UNIVERSITY  
INSTITUTE OF ENGINEERING  
**Examination Control Division**  
2079 Bhadra

Exam.	Regular		
Level	BE	Full Marks	40
Programme	All except BAR	Pass Marks	16
Year / Part	I / I	Time	3 hrs.

**Subject: - Engineering Drawing I (ME 401)**

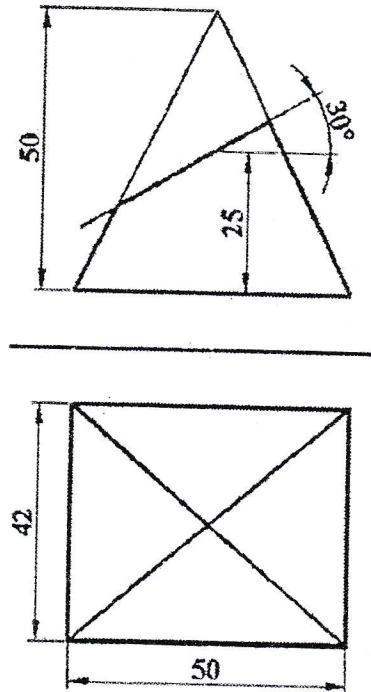
- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt All questions.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. Draw a cycloid, one and half revolution of a circle having diameter 45 mm. [4]
2. A pentagonal plane with 30 mm side has an edge on the HP. This plane is perpendicular to the VP and inclined at  $45^\circ$  to the HP. Draw its projection when its corner nearer to the VP is 10 mm in front of it. [5]
3. Draw (a) full sectional front view, (b) top view and (c) side of an object shown in figure below. Also dimension it. [6+4+3+2]



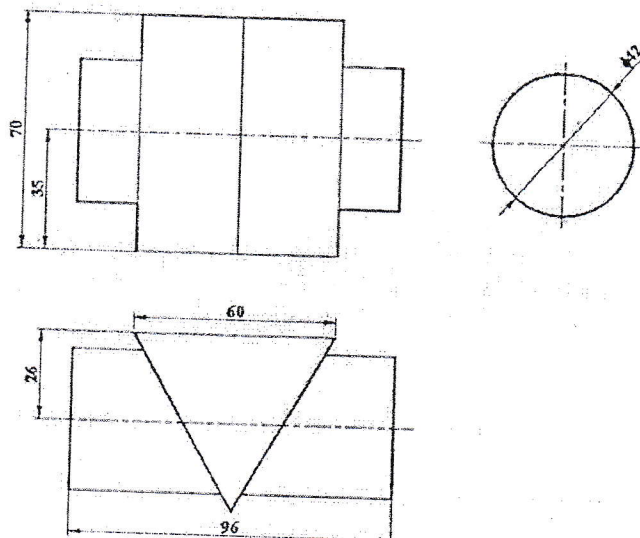
4. Draw a complete orthographic drawing of a geometrical solid cut by planes as shown in figure below. Find the true shape of the section. Then develop the complete surface of the solid.

[10]



5. Draw the lines of intersection of the surfaces of geometrical solids in figure below.

[6]



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