02    TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
**Examination Control Division**
2072 Kartik

| Exam. | New Back (2066 & Later Batch) | | |
|-------|------------|------------|-----|
| 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. Draw two circles with radii 15 mm and 20 mm respectively with their centers lying on a horizontal line and 60 mm apart. Draw an arc tangent of radius 40 mm outside to both the circles.    [3]

2. Reproduce the given views of the plane shown in figure below. Determine its true perimeter and true inclination with the HP.    [5]
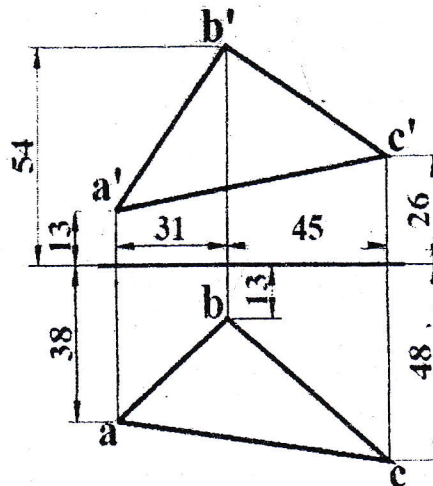


3. Pictorial view of an object is shown in figure below. Draw (with dimension) its
   (a) sectional front view, (b) side view and (c) top view.    [15]
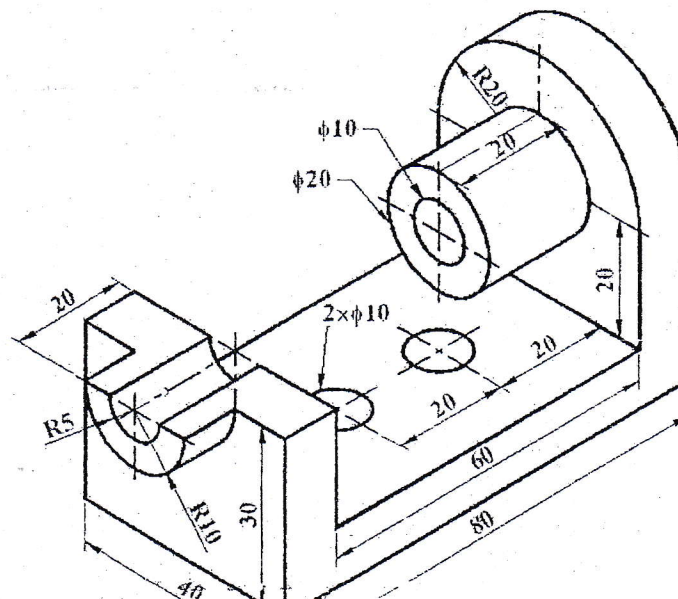
4. Complete the given orthographic views of geometrical solid cut by plane shown in figure below and develop the complete surfaces. [10]
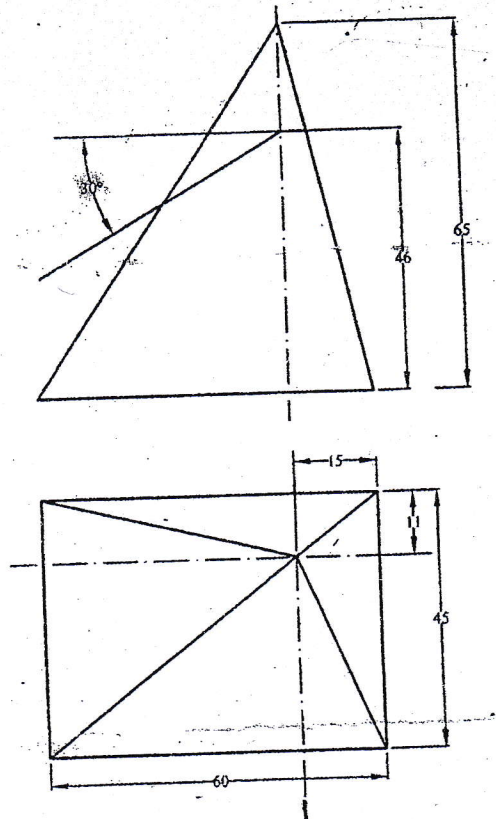


5. Draw the lines of intersection of the surfaces of geometrical solids shown in figure below: [5]



***