TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination Control Division
2080 Baishakh

Exam.		Back	
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.*
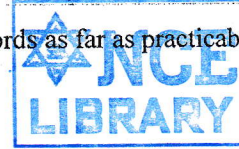
1. Make a cycloid of a locus of points on the circumference of circle for one complete rotation. When it rolls on a horizontal surface. Assume that the radius of a circle is 30 mm. [4]

2. A circle of 50 mm diameter is held in such a way that it is perpendicular to the HP and inclined to the VP at 35°. Draw its projections when a point on its circumference is nearer to the VP is 30 mm above the HP and 15 mm in front of the VP. [5]

3. Draw orthographic projections with full sectional front view, side view and top view of the pictorial drawing as shown in figure below. [15]
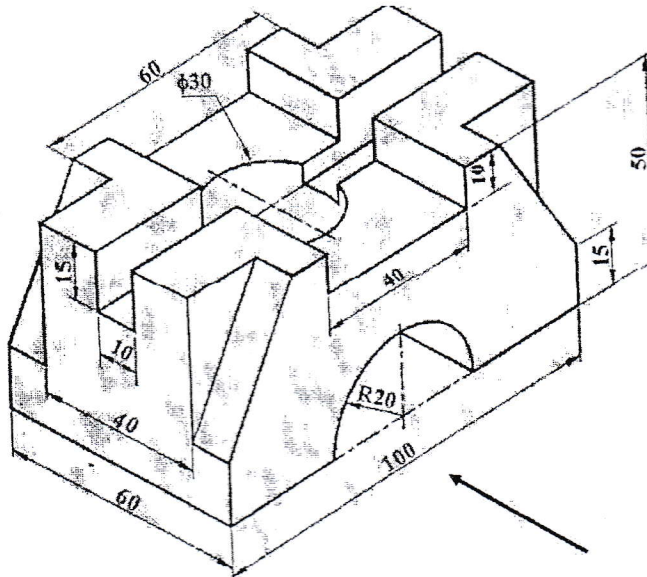
4. Draw three orthographic views of square prism which is cut by a plane as shown in given figure below. Construct complete surface development of the solid. [10]
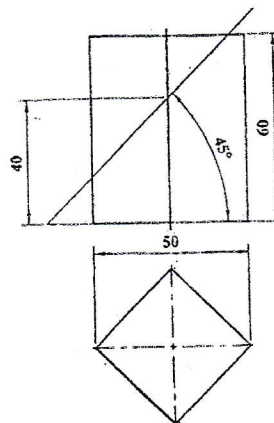
5. Draw the given views assigned and complete the intersection for figure below.   [6]

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