| Exam. | Back | | |
|---|---|---|---|
| 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 helix having a pitch of 50 mm on a cylinder with the diameter of 40 mm and height of 75 mm.    [5]

2. ABC is a triangular plane with side AB = 30 mm and sides BC = CA = 50 mm. Side AB is contained by HP and is perpendicular to VP. Draw its projections when its top view is an equilateral triangle and the nearest point A is 15 mm away from VP. Also find its inclination with the HP.    [5]

3. Draw and dimension orthographic projections with full sectional side view, front view and top view of the pictorial drawing as shown in figure below.    [14]
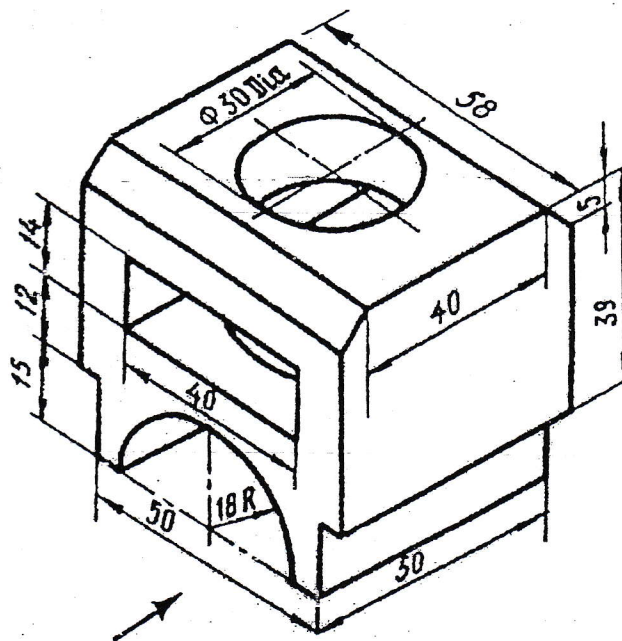
4. Make complete orthographic projections of a solid cut by planes as shown in figure below. Find the true shapes of the sections. Construct the development of all the surfaces of the solid. [10]
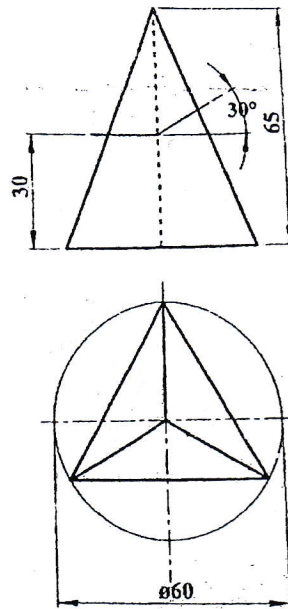


5. Draw the effects of intersection of the surfaces of geometrical solids shown in figure below. [6]



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