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MANIPAL INSTITUTE OF TECHNOLOGY
Manipal University, Manipal – 576 104



**I SEM. B.E. DEGREE END SEMESTER (MAKE-UP) EXAMINATIONS
JANUARY 2008**

**SUBJECT: ENGINEERING GRAPHICS (MEE-103/104)
REVISED CREDIT SYSTEM
(12/01/2008)**

Time: 4 Hours.

MAX.MARKS: 50

Instructions to Candidates:

- ❖ Answer **ANY FIVE FULL** questions.
- ❖ Missing data, if any, may be suitably assumed.

- 1A) A line 60mm long is inclined at 30° to HP and appears to be inclined at 50° to VP in the top view. One end of the line is nearer to both HP & VP at a distance of 20mm above HP and 30mm in front of VP. Draw its projections. Determine the inclination to VP and also locate its traces. 5
- 1B) A rectangular lamina 30mm x 40mm is resting on HP & its surface is inclined to both HP & VP in such a way that one of its diagonal appears perpendicular to XY while other parallel to XY in the front view. Draw its projections. 5
2. A rectangular pyramid of sides 30mm x 40mm and height 70mm is resting on VP with one of its longer base edges such that the apex is on HP & the edge on VP is at a height of 30 mm above HP. Draw its projections by change of position method. 10
3. Draw the projections of a pentagonal pyramid having side of base 30mm & length of axis 70mm when it is resting with a triangular face in HP and the base edge of that face inclined at 60° to VP. Use auxiliary plane method. 10
4. A cylinder, 40mm diameter and 60mm long has its axis parallel to both HP and the VP. It is cut by a vertical section plane inclined at 20° to VP, so that the axis is cut at a point 20mm from one of its ends. Retain the larger end. Draw its sectional front view and true shape of the section. 10
5. Draw the complete development of the lateral surface of the transition piece shown in **Fig. 1**. 10
6. Draw the isometric projections of the component as shown in **Fig.2**. 10

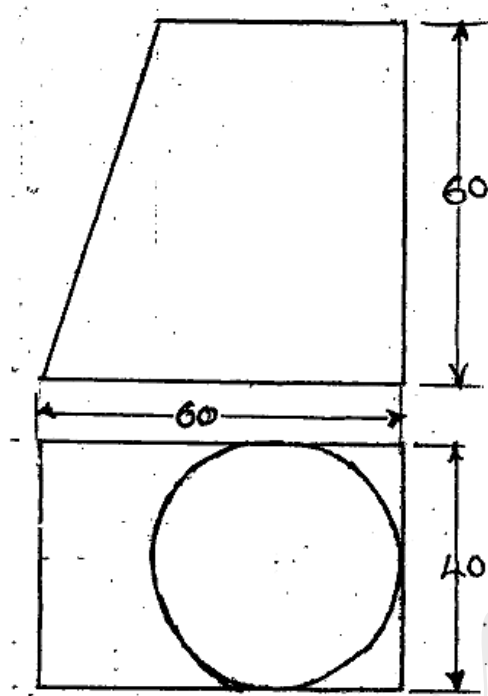


Fig. 1

All dimensions are in mm.

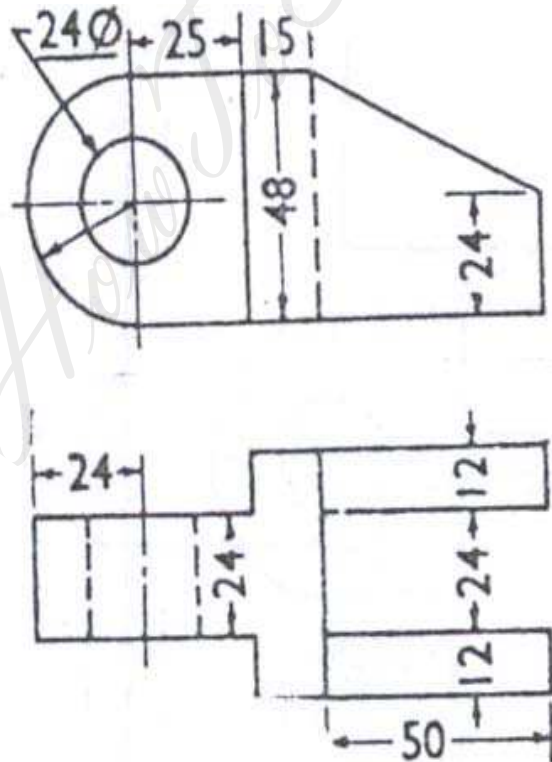


Fig. 2