

Roll No.

Total Pages : 2

BT-2/M-13

8209**ENGINEERING GRAPHICS & DRAWING
(2010-11)**

Paper-ME-105-E

Time Allowed : 3 Hours]

[Maximum Marks : 100

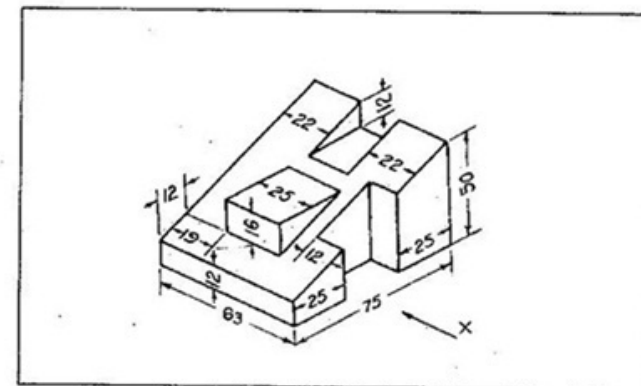
Note : Attempt any five questions.

1. (a) List the types of lines and their application. 10
(b) Construct a vernier scale of 1 : 40,000 showing kilometers, hectometers and decameters long enough to measure 5 km. Mark distance of 2.34 km on it. 10
2. (a) List the type of projections. 10
(b) The point A is 20 mm above HP and in the first quadrant. Its shortest distance from the reference line is 40 mm. Draw the projection of the point and determine its shortest distance from VP. 10
3. A straight line AB of 75 mm long, has the end A on VP and the end B on HP. The line is inclined at 30° to VP and its front view makes an angle of 45° with xy. Draw the projections of the line. 20
4. A regular pentagon of 25 mm side, has its one edge on HP. The surface of the plane is perpendicular to VP and inclined at 40° to HP. Draw the three views of the plane. 20
5. Draw the projections of a pentagonal pyramid, with side of base 30 mm and axis 70 mm long, which is resting with a slant face on HP such that the axis is parallel to VP. 20

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6. A hexagonal pyramid with side of base 30 mm and axis 50 mm long is resting on its base on HP with an edge of the base parallel to VP. It is cut by section plane, perpendicular to VP and inclined at 45° to HP. The section plane is passing through the mid point of the axis. Draw the development of the surface of the cut pyramid. 20
7. Draw the profile of various forms of screw threads. 20
8. Draw the orthographic projections of the casting shown in figure below : 20



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