

Roll No.

Total Pages : 2

BT-2/M-14

8209

ENGINEERING GRAPHICS & DRAWING

(2010-11)

Paper-ME-105-E

Time Allowed : 3 Hours]

[Maximum Marks : 100]

Note : Attempt **five** questions in all.

1. (a) List the types of scales. 6
(b) Construct a scale of 1:8, to show decimeters and centimeters and to read up to 1 m. Show a length of 7.6 dm on it. 14
2. (a) Compare third angle projection with first angle projection. Draw their symbols and show clearly the difference between the two with the help of a drawing in three views. 10
(b) The point A is on HP and 40 mm in front of VP. Another point B is in VP and below HP. The line joining their front views makes an angle of 45° with xy while the line joining their top views makes an angle of 30° . Find the distance of the point B from HP. 10
3. A line of 100 mm long makes an angle of 35° with the HP and 45° with VP. Its mid point is 20 mm above HP and 15 mm in front of VP. Draw the projections of the line. 20
4. A regular hexagon of 25 mm side, has its one edge of HP. The surface of the plane is perpendicular to VP and inclined at 40° to HP. Draw the three views of the plane. 20

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5. Draw the projections of a hexagonal 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
6. A square 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 front view and side view of a square headed bolt of 24 mm diameter and 96 mm long with the hexagonal nut. 20
8. Draw the orthographic projections of the casting shown in figure below : 20

