

SET-1

I B. Tech II Semester Supplementary Examinations, Nov/Dec - 2019 ENGINEERING DRAWING

(Com. to All Branches)

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions All Questions carry **Equal** Marks

- 1. a) Construct a vernier scale of 1:40 to read metres, decimeters and centimeters and long (8M) enough to measure up to 6 m. mark a distance of 4.36 m on it.
 - b) The foci of an ellipse are 90mm apart and the minor axis is 72mm long. Determine the (7M) length of the major axis. Construct the ellipse.
- 2. a) A line AB, 60 mm long, has its end A in both the H.P and the VP. It is inclined at 45 degrees (8M) to the HP and 30 degrees to the VP. Draw the projections of the straight line.
 - b) A line EF 60mm long is in VP and inclined to HP. The top view measures 45mm. The end E (7M) is 15mm above HP.
- 3. The end A of a line AB is 12mm in front of the VP and is above the HP. The distance (15M) between the projectors is 65mm. The line is inclined at 40° behind the VP. Draw the projections of the line and the VT.
- 4. ABCD is a rhombus of diagonals AC = 110 mm and BD = 70 mm. Its corner A is in the HP (15M) and the plane is inclined to the HP such that the plane appears to be a square. The plane of diagonal AC makes an angle of 20° to the VP. Draw the projections of the plane and find its inclination with HP.
- 5. A pentagonal prism with side of base 25 mm and axis 55 mm long is resting on one of the (15M) rectangular faces on HP. Draw the projections of the prism.
- a) Draw the projections of a cone of base 60 mm diameter and axis 70 mm long, resting on a point of rim of the base on HP, with a generator perpendicular to HP. Draw the projections of the cone.
 - b) Draw the isometric view of a hexagonal prism, with side of base 40mm and length of axis (7M) 70mm, when its axis is
 (i) Vertical and
 (ii) Horizontal.

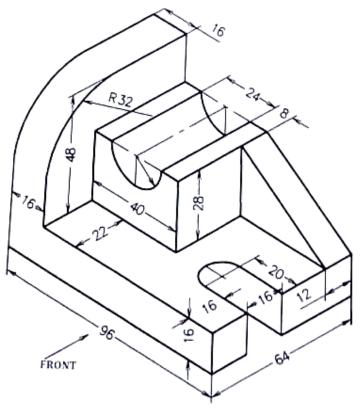
1 of 2

Code No: R10205



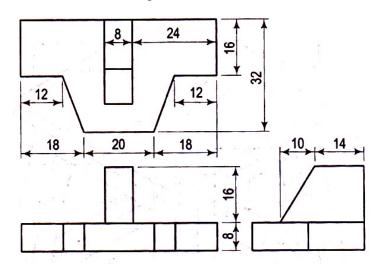


7. Draw (i) Front view (ii) Side view from the left (iii) Top view (All dimensions are in mm). (15M)



8. Draw the isometric view of a following block. (All dimensions are in mm).

(15M)



2 of 2

||"|"|"||"|| www.manaresults.co.in