Total number of printed pages: **2** **D/1st Semester (Comp.)/ DME104**

2024

ENGINEERING DRAWING

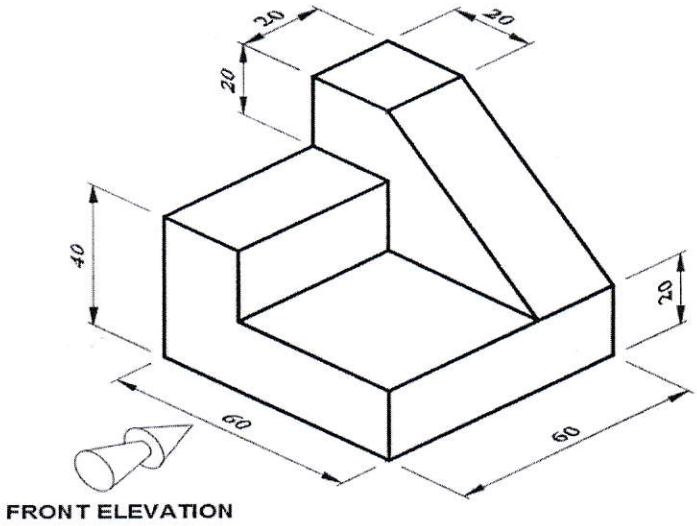
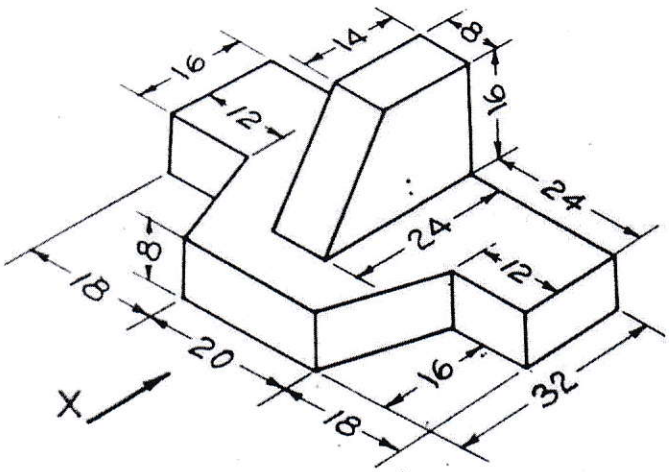
Full Marks: 100

Time: Four hours

The figures in the margin indicate full marks for the questions.

Answer ***Question No.1*** *and* ***any four*** *of the following questions.*

1.		Write the following sentence with free hand sketch in **35** mm height in single stroke vertical capital letter **(7:4)** **HYPERTEXT TRANSFER PROTOCOL SECURE**		20
2.		Draw the projections of the following points on the same ground line keeping the projections 45 mm apart. **A**, in the V.P. and 55 mm above the H.P. **B**, 40 mm below the H.P. and 45 mm in front of the V.P. **C**, in the H.P. and 35 mm behind the V.P. **D**, 50 mm above the H.P. and 35 mm in front of the V.P. **E**, in the V.P. and 55 mm below the H.P. **F**, 55 mm above the H.P. and 60 mm behind the V.P. **G**, in the H.P. and 30 mm in front of the V.P. **H**, 45 mm below the H.P. and 35 mm behind the V.P.		20
3	a)	Draw the projection of a 75 mm long straight line, in the following positions.		10
		(i)	Inclined at 40 degrees to the H.P. and it's one end 20 mm above it; parallel to and 35 mm in front of the V.P.	
		(ii)	Inclined at 45 degrees to the V.P. and it's one end 25 mm in front of it, parallel to and 40 mm above the H.P.	
	b)	A straight line AB, 80 mm long makes an angle of 45 degree to the HP and 40 degrees to the VP. The end A is 35 mm above HP and 25 mm in front of the VP. Draw its projections.		10

4.	Draw the orthographic projection of the following figure for the Front view, Top view and Side views using First Angle projection.  FRONT ELEVATION	20
5.	Draw the orthographic projection of the following figure for the Front view, Top view and Side views using First Angle projection.  **(Take Dimensions as 1 unit in the figure is equal to 2 mm, for example 32 = 64 mm)**	20
6.	**a)** Construct an equilateral triangle having altitude 9 cm and find the length ofthe sides of it.	10
	b) Construct a regular pentagon of side 7 cm.	10
7	**a)** Construct a regular hexagon of side 75 mm	10
	b) Construct an ellipse when the distance of the focus from the Directrix is equal to 50 mm and eccentricity is 2/3.	10