Total number of printed pages: **3** **D / 1st Semester / DME104**

ENGINEERING DRAWING

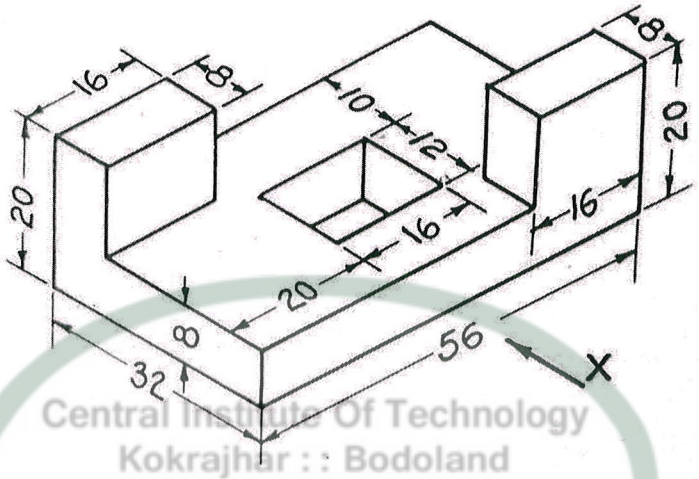
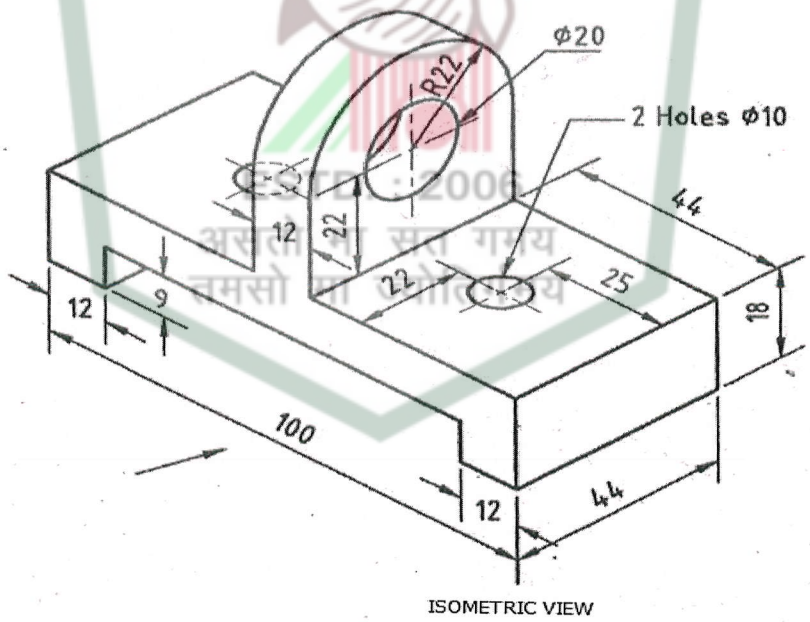
Full Marks: 100

Time: Four hours

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

Answer ***Any five*** *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)** **LOGARITHMIC MEAN TEMPERATURE DIFFERENCE**	20
2.			Draw the projections of the following points on the same ground line. **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 70 mm long straight line, in the following positions.	10
		(i)	Inclined at 30 degrees to the H.P. and it's one end 20 mm above it; parallel to and 30 mm in front of the V.P.	
		(ii)	Inclined at 60 degrees to the V.P. and it's one end 25 mm in front of it, parallel to and 35 mm above the H.P.	
	b)		A straight line AB, 90 mm long is inclined at 30 degrees to the HP. End point A is 12 mm above the HP and 20 mm in front of VP. It's front view measures 65 mm. Draw the top view of AB and find it's inclination with VP.	10

4.		Draw the orthographic projection of the following figure for the Frontview, Top view and Side views using First Angle projection.  **(Take Dimensions as 1 unit in the figure is equal to 2 mm, for example56 = 112 mm)**	20
5.		Draw the orthographic projection of the following figure for the Frontview, Top view and Side views using First Angle projection.  ISOMETRIC VIEW **(All the Dimensions are in mm)**	20
6.	a)	Construct a regular hexagon of side 55 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

7.	a)	Construct an equilateral triangle having altitude 95 mm and find the length of its sides	10
	b)	Construct a regular pentagon of side 50 mm.	10