Total number of printed pages: **3** **D/First Semester/Paper Code: DME 104**

2023

ENGINEERING DRAWING

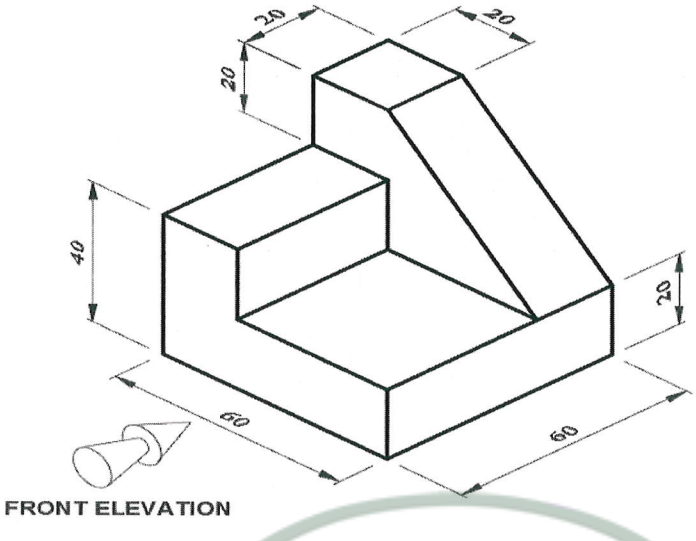
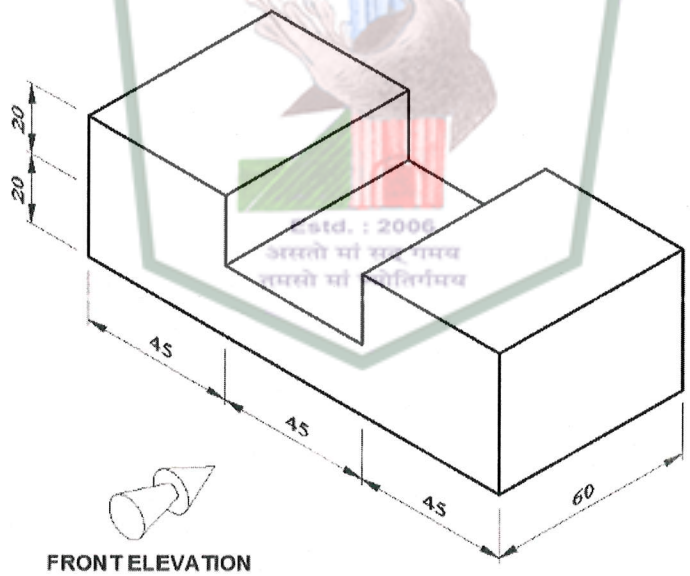
Full Marks: 100

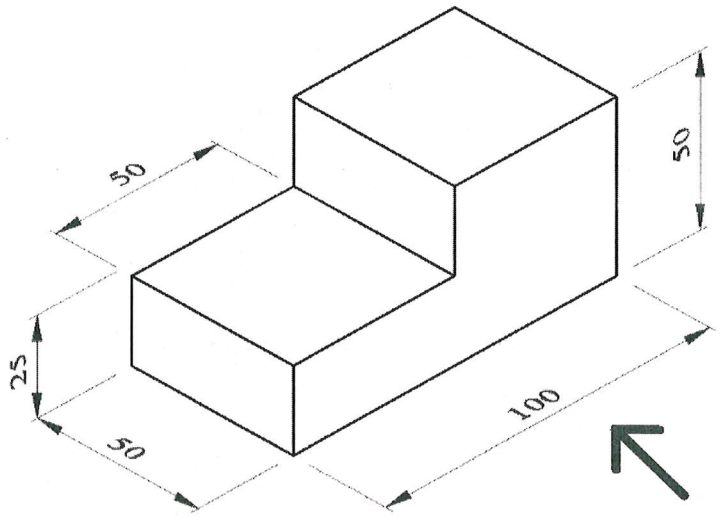
Time : Four hours

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) **INDIAN SPACE RESEARCH ORGANIZATION**		20
2.		Draw the projections of the following points on the same ground line. **A**, in the V.P. and 50 mm above the H.P. **B**, 30 mm below the H.P. and 35 mm in front of the V.P. **C**, in the H.P. and 25 mm behind the V.P. **D**, 60 mm above the H.P. and 45 mm in front of the V.P. **E**, in the V.P. and 35 mm below the H.P. **F**, 50 mm above the H.P. and 50 mm behind the V.P. **G**, in the H.P. and 30 mm above the V.P. **H**, 35 mm below the H.P. and 45 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 60 degrees to the V.P., in the H.P. and it's one end in the H.P.	
		(ii)	Inclined at 45 degrees to the V.P. and it's one end 20 mm in front of it, parallel to and 25 mm above the H.P.	
	b)	A straight line AB, 75 mm long makes an angle of 30 degree to the HP and 45 degree to the VP. The end A is 15 mm above HP and 12 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 Right hand side view using First Angle projection.  FRONT ELEVATION	20
5.	Draw the orthographic projection of the following figures for the Front view, Top view and Side view using First Angle projection. (i)  FRONT ELEVATION	20

		(ii)		
6.	Answer **Any Two** of the following.			20
	a)	(i)	With the help of scale and compass draw a square of side 12 cm.	
		(ii)	Construct an equilateral triangle of altitude 10 cm.	
	b)	Construct a regular pentagon of side 6 cm.		
	c)	Construct a regular hexagon of side 5 cm.		