



B.Tech I Semester Supplementary Examinations, June 2024

Engineering Graphics

(Common to CE,ME,CSE,CSE(AI&ML),CSE(DS) & IT)

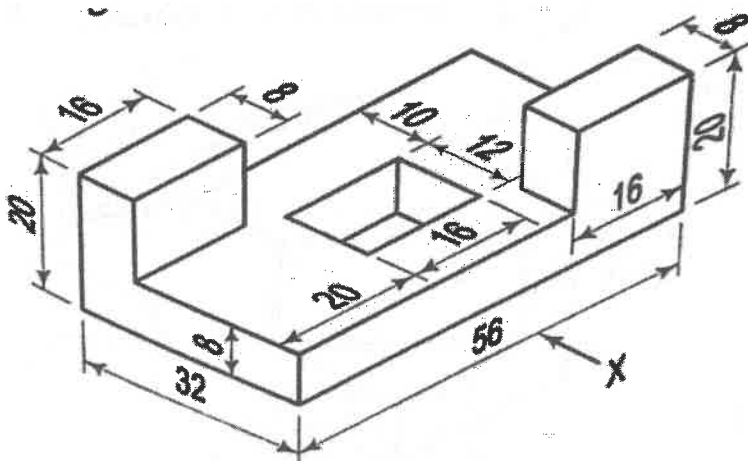
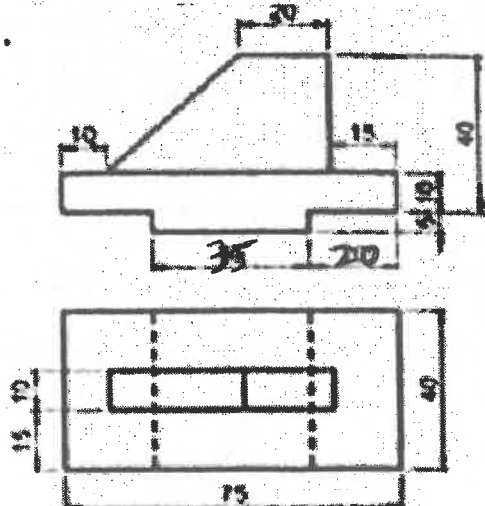
Maximum Marks: 70

Date:03.07.2024 Duration: 3 hours

- Note: 1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks		(5X14M=70 Marks)	CO	Bloom Tx
1	A fixed point is at a distance of 55mm from fixed straight line. Name the curve, Trace the path of the curve if e =1. [14M]		1	L4
OR				
2	A circle of 50 mm diameter rolls on another circle of radius 60mm for one revolution. Trace the path of the curve. [14M]		1	L4
3	Draw the projections of the following points on the same ground line, keeping the projectors 25mm apart. [14M] i) On the H.P & 20mm behind the V.P ii) 40mm above the H.P & 25mm in front of the V.P iii) On V.P & 40mm above H.P iv) 25mm below the H.P & 25mm behind the V.P v) 15mm above H.P & 50mm behind the V.P vi) 40mm below the H.P & 25mm in front of V.P vii) Situated on both planes		2	L4
OR				
4	Draw the projections of a circular plane with a 50mm diameter, resting on a point A on its circumference in the HP such that its surface is inclined at 30° to VP and inclined to HP at 45° draw its projections. [14M]		2	L4
5	A Pentagonal Pyramid of side 30mm axis length 70mm has its axis inclined to HP at 30° and its edge inclined to VP at 45°. Draw its projections. [14M]		3	L4
OR				
6	A hexagonal pyramid of base side 30mm axis length 60mm, rests on one of its base corners on the HP with axis inclined at 45° to the H.P. Draw its projections when a vertical plane containing the axis and the corner that lies in the H.P is inclined at 30° to the V.P. [14M]		3	L4

7	Draw the development of a cone of diameter 40mm axis length 65mm is sectioned by a plane inclined at 35° to HP and passing through midpoint of the axis of the cone. [14M]	4	L4
OR			
8	A Hexagonal Prism of side 30mm axis length 70mm is resting on its base on HP with a side of base. It is cut by a plane inclined at 45° to HP and passing through a point 15mm below the top end of the axis. Draw the Development. [14M]	4	L4
9	<p>Draw front View top vies and side view for the following figure: [14M]</p> 	5	L4
OR			
10	<p>Draw the Isometric Projections for the following figures. [14M]</p> 	5	L4