			1									
Q.P.Code: 23ME0302c R23			R23	H.T.No.								
		SIDDHARTH INST				ECH	NOLO	OGY::	PUT	TUR	`	
	В.1	Sech. I Year II Seme	`	TONOMOUS r & Suppler	/	ry E	xami	inatio	ns	June-	2025	
				EERING GRA			a)					
CSE(Artificial Intelligence & DataScience Time: 3 Hours							ĺ		Max	. Mar	ks: 70	
			(Answer all t	he Questions :	5 x 14 =	= 70 N	(Iarks	•				
	UNIT-I											
	1 a Divide a line AB=157mm into 8 equal parts by line division method.							C	01	L4	4M	
	b Construct a regular Pentagon of base side 30mm by general method.							C	O 1	L6	5M	
		c Construct a regular r	exagon of base	side 30mm o	y gener	ai me	inod.	C	01	LO	SIVI	
	OR										30	
	2	2 a Draw the involute of a regular pentagon of side 20 mm.							O 1	L3	6M	
	b Develop the involute of a circle of side diameter 50 mm. Draw a								01	L3	8M	
	tangent and normal to the curve at a distance of 100 mm from the											
	centre of the circle.											
				UNIT-II								
	3	A square plane ABCD of side 30mm is parallel to HP and 20mm away							O 3	L6	14M	
		from it. Draw the projections of the plane, when (i) two of its sides are						are				
	parallel to VP and (ii) and one of its side is inclined at 300 to VP.											
		OR										
	4	(III) AII							O3	L6	14M	
	VP and inclined at 30o to the HP .Draw the projection of the plan											
	when its surface is inclined at 450 to VP											
				UNIT-III	1							
	5	A cube of 40mm side	A cube of 40mm side is resting with a face on H.P such that						CO3	L6	14M	
		i) vertical faces are ed	qually inclined	to V.P. ii) one	of its v	ertica	l face	S				
		is inclined at 300 to V	7.P. Draw its pr	ojections.								
				OR								
	A cone of diameter 50 mm and axis 60 mm has its generator in the VP and the axis is parallel to the HP. Draw its projections. UNIT-IV								03	L6	14M	
	7	A pentagonal pyramid with edge of base 25 mm and axis 65 mm long								L6	14M	
		its base is resting on	HP. It is cut by	a section plan	ne, incl	ined a	t 600	to				
		HP and perpendicula	r to VP it bise	cts the axis. I	Oraw tl	ne pro	jectio	ons				
		and obtain the true sh	ape of the secti	on.								
				OR								

A cone of 50 mm diameter and axis 70 mm long. Its base is on HP. It CO4 L6 14M is cut by a sectional plane perpendicular to VP and inclined to HP at 450 from apex 32mm .Draw the projections of FV,S.TV, True shape.

UNIT-V

9 Draw the isometric view of a cone of base diameter 50mm and axis 60 CO5 L1 14M mm. The cone has its base on (a)HP (b)VP

OR

Draw three views of the blocks shown pictorially in figure according to CO6 L6 14M first angle projection.

