R19

F	Reg. No:	a bot	ນາສຕຣ	122 2	XII TO	n 6,4		615 (5)	# 0E	DXES.	9 199	in and			
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR															
(AUTONOMOUS)  B.Tech I Year I Semester Supplementary Examinations December-2021															
	D.160	11110	sai i c	ocilie.					APHI		OHS L	Jeceilik	JC1-20	in the sent	
(Common to ECE, CSE & CSIT)															
Time: 3 hours Max. Marks: 60															
(Answer all Five Units 5 x 12 = 60 Marks)  UNIT-I  1 a Draw an involute of a circle of 40 mm diameter. Also, draw a normal and a L1 6M															
1										draw	a no	rmal an	d a	L1	6M
	<ul><li>tangent at a point 95 mm from the centre of the circle.</li><li>b Draw an involute of a hexagon 20 mm side. Also, draw a normal and a tangent at</li></ul>												<b>L2</b>	6M	
a point 100 mm from the center of the hexagon.															
OR															
2	Construct an ellipse when the distance between the focus and the directrix is 50 mm and the eccentricity is 2/3. Draw tangent and normal at a point 40 mm from the directrix.													L3	12M
	directra.						UNI	Г-ІІ							
3	Draw the pro	jectio	ns of t	he fol	lowing	g poin			the dis	tance	betwe	en the		L3	12M
	projectors as 25mm on the same reference lines.														
	A – 20 mm above HP and 30 mm in front of VP B – 20 mm above HP and 30 mm behind VP														
	C-20  mm b	elow	HP and	d 30m	m bel	ind V	P								
	D – 20 mm below HP and 30 mm in front of VP E – On HP and 30mm in front of VP														
	E - On HP a F - On VP a														
	G – Lying or														
		0					Ol								
4	A Thin 30 <sup>0</sup> -60 <sup>0</sup> set- square has its longest edge (diagonal) on H.P and inclined at 30 <sup>0</sup> to V.P. Its surface makes an angle of 45 <sup>0</sup> with H.P. Draw the projections, choosing												L3	12M	
suitable size for the set -square.															
5	Drow the pro	niantia	ng of	o hove	aganal		UNIT	AND ROLL OF THE PARTY OF THE PA	boso '	25 mn	n and	ovia 60	mm	1.2	12M
3	Draw the projections of a hexagonal prism of side of base 25 mm and axis 60 mm long, when it is resting on one of its corners of the base on H.P. The axis of the solid											L3	12111		
	is inclined at			ii one	OI Its	corner	5 01 11	ic ous	c on n		ic axi.	of the .	Jona		
OR															
6		A square pyramid of base 30mm and axis 65 mm long is resting with its base on H.P and all the edges of the base are equally inclined to VP. It's cut by sectional plane perpendicular to VP and inclined 45° to HP bisecting the axis. Draw its SFV, SSV, STV, TS												L3	12M
	,					*	UNIT	T-IV							
7	A hexagonal	prisn	n side	of bas	se 30 i				nm lor	ıg ,is	resting	g on its	base	L3	12M
	on H.P such	that,	a recta	angula	r face	is pa	rallel	to V.I	P. It is	cut b	y a se	ection p	lane,		
	perpendicula the top end lateral surface	of an	extren	ne late	eral ed					-	-	_	_		
				r			2000 1	of 2							

Q.P. Code: 19ME0302

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OR

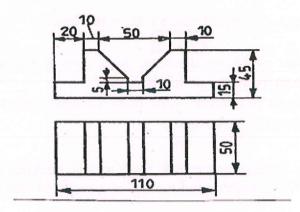
R19

8 A vertical square prism of base 30 mm side and 70 mm axis is penetrated by a horizontal square prism of base 25 mm side and 70mm axis. Both the axes intersect and bisects each other. All the faces of the prisms are equally inclined to V.P. Draw the projections showing the curves of intersection.

L3 12M

- UNIT-V
- 9 Draw the isometric view of the following sketch.

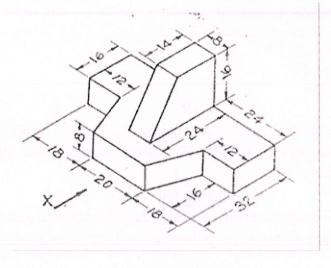
L4 12M



OR

10 Draw three views of the blocks shown pictorially in figure according to first angle projection.

L4 12M



\*\*\* END \*\*\*