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Re	eg. No:															
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR																
						(AU	TON	OMOL	JS)							
B.Tech I Year II Semester Supplementary Examinations December 2018 ENGINEERING GRAPHICS																
(Common to CE, EEE,ME & AGE)																
Time: 3 hours Max. Marks: 60																
(Answer all Five Units $5 \times 12 = 60$ Marks)																
							UN	IT-I								
1	Draw an epi-cycloid of rolling circle of diameter 40 mm which rolls outside another circle (base circle) of 150 mm diameter for one revolution. Draw a tangent and normal at any point on the curve. OR															12M
2	Draw a hypo cycloid of a circle of 50 mm diameter, which rolls inside another circle of 180 mm diameter															12M
	for one revolution counter clockwise.														12111	
3	A line AP 50mm long has its and A away from the UD and VD then and D. The line is inclined to the															
0	HP at 300 ar	nd to th	e VP at	3 IIS EL 450. I	Draw th	he proj	ections	if end	A is 3:	5mm at	bove th	ne HF	and 5	Omm in	front	12M
	of the VP.					1 5										
		. ,.	C	1.	1		(DR .	4 6 1		•,•					
4	a) parallel to both HP and VP and 20 mm from each.													1014		
	b) Parallel to and 20 mm above the HP and on VP												1211			
	C)	Paralle	el to and	1 30 mi	n in ir	ont of		On HP								
5	A regular he	A regular hexagonal plane of 45 mm side has a corner on HP and its surface is inclined at 450 to HP														1015
	Draw the projections, when the diagonal through the corner, which is on HP makes 300 with VP													12M		
(OR															
0	A semi circu	ilar plai	ne of di	ameter	: 70mm	n has 11	ts straig urface i	ght edg	ge on the	he VP a	and inc	clinec ZD	1 at 30	degree	to the	12M
	river araw the projection of the plane when its surface is inclined at 45 degree to VP															
7	A hexagonal	prism (of side	of base	: 30 mr	n and l	ength c	of axis '	75 mm	, is rest	ing on	its ba	ase on	HP. It is	cut	
	by a section plane inclined 35 degree to HP and passing through top corner. Draw the front and sectional (6M			
	OR															
8	A square pri	ism of s	side of	base 4	0 mm	and ay	xis 80 :	mm loi	ng, is 1 t of the	resting	on its	base	on HF	such th	nat, a	6M
	Teetangulai I		t is pair		VI.D	raw un	UN	IT-V	l of the	prisiii.						
9	Draw the isometric projection of a pentagonal prism of base side 35 mm and axis 60mm. The prism													12M		
	rests on its base on the HP with an edge of the base parallel to the VP.													12111		
10	Draw three views of the blocks shown pictorially in figure according to first angle projection.													12M		
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