

R	eg. No:]			
SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR															
	51221				120			OMOL				001.			
	B. Te	ech II	Year			-	•		-		ations	s Augus	st-202	22	
				J				F MA(Engine							
(Mechanical Engineering) Time: 3 hours Max. M													. Marl	ks: 60	
	(Answer all Five Units $5 \times 12 = 60$ Marks)														
							UNI	T-I							
1	a What is	constr	ained	motic	on and	ł wha	are are	the d	ifferer	it typ	es of	constrai	ned	L1	6 M
motions? Give one example for each with suitable sketch.															
b Explain the working of beam engine with neat sketch. OR												L2	6 M		
2	What are th	ne prac	tical a	applica	ations	of inv	-		the sir	igle sl	ider c	rank cha	ain?	L1	12M
2 What are the practical applications of inversions of the single slider crank chain? L1 12M Explain all with neat sketch.															
							UNI	Г-II							
3	a What is t													L1	6M
	b Sketch and explain the working of Grasshopper straight line mechanism. OR											L4	6M		
4	Explain the	worki	ng of	anv t	wo of	f exac			ne me	chanis	sms v	vith suits	able	L1	12M
-	Explain the working of any two of exact straight line mechanisms with suitabl sketches.														
							UNIT	'-III							
5	a Define ru	-		•	-	•					-	locity at	pin	L1	6M
	joint when the two links move in the same and opposite directions? b Explain in detail, how the velocity of a point on a link can be found in the										.1	T 1			
	b Explain a relative v				veloc	city of	t a po	oint on	n a lin	k can	be f	ound in	the	L1	6M
		ciocity	meun	ou.			Ol	R							
6	Explain with	n a suit	able s	ketch	how t	he ve	locitie	s of li	nks of	a meo	chanis	m are fo	und	L1	12M
	using the instantaneous centre method.														
_							UNIT			c	6.1				~
7	a Draw the it moves	-			•				-	ms to	r a fol	lower w	hen	L4	6M
	b Explain v									vers.				L1	6M
	r r						O	-							
8	Write short				-									L4	12M
	i. Cam ii.	Offset	follov	ver	iii. Ra	idial fo	ollowe		. Mus	hroom	ı follo	wer			
0	Explain the	alacaif	iontior	of go	ore w	th ani	UNI'.		20					Τ1	1214
9	Explain the	CIASSIII	cation	i or ge	ais W]	ui sul	ladie s		-5.					L1	12M
10	a Explain t	he foll	owing	terms	:									L1	6M
	(i) Modu			-											
	b Discuss a	ıbout 'i	nterfe	rence?	' as ap	plied	to gea	rs with	1 suita	ble sk	etches			L2	6M