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			Question	n Paper Co	ode 12314													
M.E. / M.Tech DEGREE EXAMINATIONS, NOV / DEC 2023																		
First Semester																		
M.E CAD/CAM																		
		20PCDPC	101 - CON	IPETITIVI (Regulat			CTUI	RIN	G S	SYS'	ГЕМ	1S						
Duration: 3 Hours Max.								<b>x.</b> ]	Marks: 100									
$PART - A (10 \times 2 = 20 Marks)$																		
				Answer Al	LL Ques	tior	ıs								Mar	rks.		
1	11			1 4 - C - 11			- 41- 9							<i>K</i> -	Leve	e <b>l, CO</b> CO1		
1.		w are robots p	-		a certai	n pa	ath?											
2. 3.		t the typical a					-1 <b></b>	- 49	)					2,K1,CO1 2,K1,CO2				
3. 4.	What are the various types of coding systems widely used?									2,K1,CO2 2,K2,CO2								
4. 5.	Distinguish between FMC and FMS.										2,K2,CO2 2,K2,CO3							
<i>5</i> . 6.	Differentiate intrinsic function from extrinsic function.										2,K1,CO3							
0. 7.	List the software used in tool management systems. What are the steps involved in PDCA cycle?										2,K1,CO4							
7. 8.	What is the quality circle activity?										2,K1,CO4							
9.	What is the quarty chere activity? What are the characteristics of JIT?										2,K1,CO5							
10.											2,K2,CO5							
			PA	RT - B (5 ×	< 13 = 65	5 M	arks)	)										
	,			Answer Al	-						_	~				<b>GO1</b>		
11.	a)	Discuss the technology.	practical	application	on of ]	Indi	ustria	l ro	obo	ts d	& \$	Sen	sor	13	3,K2	,CO1		
				0														
	b)	Describe the important fa	-	•		nbly	y. Wł	ıy ł	ıas	it b	eco	me	an	1:	3,K2	,CO1		
12.	a)	Explain the	concept of	part family O		suit	able i	llus	strat	ion.				13	3,K2	,CO2		
	b)	Explain the	various co	-		vith	an e	xam	nple					13	3,K2	,CO2		
13.	a)	Explain the	various tec	-	'simulati <b>R</b>	ons	5.							13	3,K2	,CO3		
	b)	Describe the detail.	e practical			ta s	syster	ns	and	da	ta fl	low	' in	13	3, <i>K2</i>	,CO3		
V I	D		1	11 V.4	4 1	V		1	. 12		a	,		17	21	4		

14.	a)	Explain the concept of Kaizen techniques and list the advantages.						
	b)	<b>OR</b> Describe the implementation of concepts of lean manufacturing with an example.	13,K2,CO4					
15.	a)	Illustrate any two types of kanban with neat sketches.	13,K2,CO5					
		OR						
	b)	Discuss the effect on pull systems with various examples.	13,K2,CO5					
PART - C (1 × 15 = 15 Marks)								
16.	a)	Examine the 5s systems used in manufacturing industries.	15,K4,CO4					

## OR

b) Formulate the method adopted to implement the JIT philosophy for a <sup>15,K4,CO5</sup> medium scale industry. Summarize the problems to be faced while implementing JIT.