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MTECH (SEM II) THEORY EXAMINATION 2023-24 COMPUTER INTEGRATED MANUFACTURING (CIM)

TIME: 3 HRS M.MARKS: 70

Note: Attempt all Sections. If require any missing data; then choose suitably.

Note	Auempi	all Sections. If require any missing data; then choose suitably.	
		SECTION A	
1.		t all questions in brief.	2*7 = 14
		cribe AUTOMATION	
		cuss the advantages of DNCs over NC machines	
		at do you mean by INCREMENTAL programming	
		ain different types of robot programming Languages	
		lain briefly automatic tool changer	
	—	mpare between point to point and straight cut control system.	
	g. Exp	lain opitz method of coding in group technology.	
		SECTION B	
2.		t any three of the following:	7*3 = 21
	a. Brie	fly illustrate and explain USA principle of Automation	
	b. Wha	t do you mean by MACRO Statement? Also write down its adv	antages in
		gramming CNC machines	
	c. Expl	lain Group Technology and Computer Aided Process Planning	10).
	d. Com	npare between fixed, programmable and flexible automation.	
	e. Expl	lain the axis and motion nomenclature of CNC machine.	/
		SECTION C	
3.		t any one part of the following:	7*1 = 7
		strate and Explain Ten Strategies for Automation and Process Impr	ovement
		plain different LEVELS of automation	
4.		t any one part of the following:	7*1 = 7
		strate and Examine the parameters in detail and near	
		ich are responsible or eliminating and reducing the accrator in CNC system	ctivities of
		tify the statement: "Actuators are the muscles of robots. R	obots find
		olications not only in the industry"	11110
5.		t any <i>one</i> part of the following:	7*1 = 7
		y production flow analysis is required in implementation of GT? E	
		lection and sortation of process routing steps in product flow analys	
	b. Wh	-4	.1 1.11
		at are the various layout configurations of FMS? Explain w	th suitable
		lications	
6.	Attemp	t any one part of the following:	7*1 = 7
6.	Attemp a. Exp	t any one part of the following: claim working of Automated storage and retrieval system(AS/RS) w	7*1 = 7
6.	Attemp a. Exp	clications t any one part of the following: clain working of Automated storage and retrieval system(AS/RS) was simples	7*1 = 7
	Attemp a. Exp exa b. Dif	t any one part of the following: plain working of Automated storage and retrieval system(AS/RS) wamples ferentiate between MRP and MRP-II using suitable examples.	7*1 = 7
6.7.	Attemp a. Exp exa b. Dif Attemp	t any one part of the following: clain working of Automated storage and retrieval system(AS/RS) was smples ferentiate between MRP and MRP-II using suitable examples. t any one part of the following:	7*1 = 7
	Attemp a. Exp exa b. Dif Attemp a. Exp	t any one part of the following: plain working of Automated storage and retrieval system(AS/RS) wamples ferentiate between MRP and MRP-II using suitable examples.	7*1 = 7 rith suitable 7*1 = 7