advantages.

15MT562

Fifth Semester B.E. Degree Examination, Aug./Sept.2020 Automation in Manufacturing

Time: 3 hrs.

Max. Marks: 80

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	No	te: Answer any FIVE full questions, choosing ONE full question from each m	odule.
		Year of the second of the seco	
		Module-1	(00 7/1 1)
1	a.	Explain manufacturing support system.	(08 Marks)
	b.	Explain production system facilities and its ranges.	(08 Marks)
		OR	
2	a.	Explain strategies of automation principle.	(08 Marks)
	b.	Explain production concepts and mathematical models.	(08 Marks)
		Module-2	(00 3 % 1)
3	a.	Explain the basic elements of an automated system.	(08 Marks)
	b.	Classify and explain various level of automation with a sketch.	(08 Marks)
	,	OR	(00 Ml-a)
4	a.	Explain taguchi methods in quality control.	(08 Marks)
	b.	Explain term traditional quality control and modern quality control.	(08 Marks)
		Module-3	(08 Marks)
5	a.	Briefly explain single station automated cells.	(08 Marks)
	b.	Explain components of manufacturing systems.	(00 Marks)
		OP	
	,	OR	(08 Marks)
6	a.	Explain lean and agile manufacturing.	(08 Marks)
	b.	Explain: i) Concurrent engineering ii) Just in time production system.	(
		Module-4	
-		Describe with a neat sketch, explain components and working of coordin	ate measuring
7	a.	machine with a neat sketch.	(08 Marks)
	h	1 C 1 in the state of the	(08 Marks)
	b.	mustrate the working of machine vision system	
	,	OR	
Q	9	Explain any one optical inspection techniques, with neat sketch.	(08 Marks)
8	a. b.	Explain automated inspection with suitable figures.	(08 Marks)
	υ.	DAPIGIT GUICONANCE SISP	
		Module-5	
9	a.	Define group technology, explain its benefits and application.	(08 Marks)
,	b.	Explain part classification and coding.	(08 Marks)
	0.		
		OR	
10	a.	Explain FMS and its benefits with application.	(08 Marks)
	b	- 1 cu ' Destruction flow analysis u) ('ellular manilla	
		advantages.	(08 Marks)