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B.Tech. - VIEP - MECHANICAL ENGINEERING (BTMEVI)

Term-End Examination, 2019

BIMEE-009: COMPUTER AIDED MANUFACTURING

Time: Three Hours] [Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks. Standard symbols have their usual meaning.

- 1. (a) Explain the organization of automated manufacturing system with neat sketch. [7]
 - (b) Explain the concepts and strategies for implementing automation in Manufacturing. [7]
- 2. (a) Describe the various components of NC machines. [7]
 - (b) What is the function of drives? Elaborate different drives used for NC machine tools. [7]
- (a) What are different NC words used in Part Programming? Briefly describe their functions.

[7]

	(b)	Explain the principle and operation of a different integrator with a neat diagram.	entia [7]
4.	(a)	What are different types of stepper motors the advantages and disadvantages of a stemotors.	? Lis
	(b)	Why are the adaptive control systems easi be installed on NC machines? Write the ber of adaptive control.	
5.	(a)	What is Computer Integrated Manufactu (CIM)? Describe its various elements.	uring [7]
	(b)	Enumerate the advantages and disadvantages of open loop and closed loop NC systems.	ages [7]
6.	(a)	What do you understand by FMS? Write advantages of FMS.	the
	(b)	What is Group Technology concep manufacturing? Discuss the various stage Group Technology Planning.	
7.	(a)	Explain the different types of joints and links robot? What are the symbols used?	s in a [7]
	(b)	Write briefly about various methods for r programming.	obo! [7]

(2)

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- 8. Write short notes on the following (any two): [7×2=14]
 - (a) Artificial Intelligence
 - (b) Computer Aided Process Planning
 - (c) Computer Aided Instruction

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