

Code No: **R41032**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, Oct/Nov - 2018 CAD/CAM

(Common to Mechanical Engineering and Auto Mobile Engineering)

Time: 3 hours Max. Marks: 75

Answer any FIVE Questions All Questions carry equal marks

1	a)	Explain the CAD/CAM Hardware, basic structure, and CPU functions with neat diagram.	[9]
	b)	Describe about memory types and display devices.	[6]
2	a)	Explain the method of hidden surface removal. Give its advantages and limitations.	[8]
	b)	Distinguish between 2-D and 3-D wire frame models.	[7]
3	a)	Describe with the help of neat sketches the major surface entities provided by CAD/CAM Systems.	[8]
	b)	Explain the requirements and types of geometric models.	[7]
4	a)	Explain about various editing commands.	[7]
	b)	Describe the construction of various solid modeling techniques.	[8]
5	a)	Explain the features of machining center and turning center.	[8]
	b)	Write about the special features of Numerical Control machine tools when compared to the Conventional machine tools.	[7]
6	a)	What is Group Technology? Classify a component using any one type of coding system.	[8]
	b)	Explain the Retrieval type Computer Aided Process Planning with neat diagram.	[7]
7	a)	Explain about terminology in quality control in detail.	[7]
	b)	Explain general types of non-contact with non-optical inspection methods.	[8]
8	a)	Write about the functions of Machine tools and related equipment in CIM systems in detail.	[8]
	b)	Explain the benefits of Computer Integrated Manufacturing Systems.	[7]