

Code No: **R41032**

R10

Set No. 1

IV B.Tech I Semester Supplementary Examinations, February - 2019 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)b)	Write about the various hard copy devices and different types of input devices used in CAD System. Explain briefly. Write the advantages to be gained by the adoption of CAD/CAM system into	[10]
	U)	the industry.	[5]
2	a)	What is meant by Data base in CAD? Explain different types of Data base structures used in CAD-Software.	[8]
	b)	Write short notes on (i) stroke writing (ii) Raster Scan with neat sketches.	[7]
3	a) b)	Explain the construction of geometric models. What are entities? Explain the methods of defining lines, arcs and Circles in	[8]
	٠,	wire frame modeling.	[7]
4	a)	Explain the basic geometric commands.	[7]
	b)	Describe the concepts of layers and dimensioning in detail.	[8]
5	a)	Write the differences between manual part programming and Computer Aided Part Programming.	[8]
	b)	Explain the different types of NC words used in part programming technique.	[7]
6	a)	By using GT, what types of benefits are associated in the functional areas (i) Production control	
	1 \	(ii) Manufacturing (iii) Quality control	[9]
	b)	Explain the Generative type Computer Aided Process Planning with neat diagram.	[6]
7	a)	Explain the computers in quality control.	[7]
	b)	Explain general types of non-contact Optical inspection methods.	[8]
8	a) b)	Describe about the concept of CIM with the aid of block diagram. Explain various types of data files used in CIM systems.	[8] [7]