Code: ME7T5B

## IV B.Tech - I Semester – Regular / Supplementary Examinations November 2016

## CAD / CAM (MECHANICAL ENGINEERING)

Duration: 3 hours Max. Marks: 70
Answer any FIVE questions. All questions carry equal marks

- a) Briefly explain the various categories of manufacturing activities. Write down the advantages to be gained by the adoption of CAD and also CAM.
  - b) What are the functions of CPU in CAD workstation? 7 M
- 2. a) Explain Raster Scan Graphics coordinate system. 7 M
  - b) Explain the importance of database during geometric modeling and also explain how database is structured?

7 M

- 3. Explain various curve representation methods used for geometric modeling. 14 M
- 4. a) Emphasize on the importance of LAYERS during design of a CAD model.

  4 M

	b) Differentiate Surface modeling and Solid modeling with context to designing a CAD model. What measures do yo	
	consider while modeling them?	10 M
5.	. a) What do you understand by the word "Numerical C	Control''? 7 M
	b) What are the factors that contributed to the develop	oment of
	Numerical Control?	7 M
6.	. a) Discuss the benefits of Group Technology.	7 M
	b) Briefly explain about MICLASS system.	7 M
7.	. a) What is FMS?	7 M
	b) Explain in detail the basic components of FMS.	7 M
8.	. a) How manufacturing systems are classified? Explain detail.	n in 7 M
	b) Discuss the scope of CIM with respect to an autom	obile
	industry.	7 M