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## IV B.Tech I Semester Supplementary Examinations, February/March - 2018

CAD/CAM

(Common to Automobile Engineering and Mechanical Engineering) ours Max. Marks: 70

Time: 3 hours

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B \*\*\*\*\*

## PART-A (22 Marks)

1.	a)	What is mathematics of projection?	[4]
	b)	What are layers in CAD?	[4]
	c)	What is NC mode?	[3]
	d)	What are the two types of parts similarities?	[4]
	e)	What additional benefits obtained by integrating CAQC with CAD/CAM?	[4]
	f)	What are the four basic components of a CIM system?	[3]
		<u><b>PART-B</b></u> $(3x16 = 48 Marks)$	
2.	a)	How the product cycle is revised with introduction of CAD/CAM.	[8]
	b)	What are the various memories used in a computer?	[8]
3.	a)	What are the various curve representation methods?	[8]
	b)	How the line and circle are parametrically represented as Analytic curves?	[8]
4.	a)	Differentiate CNC and DNC machines?	[8]
	b)	What are the various NC elements?	[8]
5.	a)	What are the three general methods to form group parts into families?	[8]
	b)	What are the various hierarchical structure used in GT applications?	[8]
6.	a)	What are the important effects which results from computer aided quality	
	)	control?	[8]
	b)	Discuss about scanning laser system used for non contact inspection.	[8]
7.	a)	What are the important machine tools in a CIM system?	[8]
	b)	What are the computer components used in CIM?	[8]