This question paper contains 3 printed pages.] Your Roll No. .... 8467 A B.Tech. (M)/IV Paper EME-404: ELECTIVE-I-CAD/CAM Time: 3 Hours Maximum Marks: 70 (Write your Roll No. on the top immediately on receipt of this question paper.) Answer five questions, selecting at least two from Part A and two from Part B. Assume missing data if any PART-A 1. (a) Differentiate between: Absolute and incremental programming CNC machine (i) (ii) CNC and DNC 8 (b) Explain with examples the functioning of following used CNC: (i) Input devices Memory devices (ii) (iii) Storage devices 6

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2	(a)	Explain the following with respect to geometric modelling:	
		(1) Sweep or Extrusion	
		(ii) Solid modelling 6	ı
	(b)	With example explain:	
		(i) Bezier Curves	
		(ii) B-Splines	ţ
3.	(a)	While using AUTOCAD for draftings explain the following	g
		functions :	
		(i) Co-ordinate System	
		(ii) Limits	
		(iii) Layers	
		(iv) Dimensioning	8
	(b)	Write a note on 'Snap' and 'Ortho' in computer draftin	g
		system.	6
4.	(a)	Explain 'G' and 'M' codes used in NC part programming with	h
		four examples in each of them.	6
	(b)	With examples explain two functions in each case used in drawing	g
		(i) Circle, (ii) Line, (iii) Point using APT language.	8
PART-B			
5.	(a)	Define Robot.	2
	(b)	Explain with neat sketch any two configuration of robots use	Ċ

in industry.

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