Codo No. 127 A 7

Code No: 137AZ



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, December - 2019

\mathbb{R}^{Time}	CAD/CAM (Common to ME, AE, MSNT) (Some of the common to ME, AE, MSNT) (Common to ME, AE, MSNT) (Common to ME, AE, MSNT) (Common to ME, AE, MSNT)	arks: 75
Note	: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Par consists of 5 Units. Answer any one full question from each unit. Each question marks and may have a, b as sub questions.	rt A. Part B on carries 10
.8R	8R 8R 8R 8R	(25 Marks)
1.a) b) c)	List out the benefits of the CAD/CAM. What is the difference between parametric and non parametric form? What is Blending functions? Write the parametric equation for Plane surface.	[2] [3] [2]
e) f) g) h)	What is Direct Numerical Control? What are the basic elements of NC system? State advantages of CAPP. What are the two types of parts similarities?	[2] [3] [2] [3]
i) j)	Define FMS. What are the components of an AGV system?	[2] [3]
2.a) b)	Explain about different display devices What is the most commonly used graphic terminal? Explain its working. OR	(50 Marks) [5+5]
3.	Derive the parametric equation for B Spline curve and also list out its characteris	stics.[10]
S 25.	Describe briefly about Bicubic surface and Bezier surface. OR Briefly explain the term C rep Modeling with suitable example.	
6.	Differentiate between the ACC and ACO type adaptive controllers. OR	[10]
7.	Discuss the four types of statements used in APT part programming.	[10]
3 ₹8.	Write a short note on Retrieval type and Generative type.	
9.a) b)	What are the characteristic features of material requirement planning? Explain briefly the MICLASS system of codification.	[5+5]
10.a) b)	What are the different types of CMM? Explain in detail the different types of database requirements in CIM. OR Describe any two methods of non contact type of computer aided testing	[4+6]

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