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Code	R18	
AG	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD  B. Tech III Year II Semester Examinations, August - 2022  CAD AND CAM  (Mechanical Engineering)	1
Time	:: 3 Hours Max. Marks: 75	
	Answer any five questions All questions carry equal marks	
AG.	Explain the following with respect to the CAD system:  a) Random scan graphic terminal b) Digitizers and Image scanners c) CPU.  [5+5+5]	
2.a)	Derive the parametric form of following:  i) Bezier curve  ii) B-Spline curve.  Distinguish between interpolation and approximation approaches used in design of curves.  [7+8]	/
3.a) b) (4.a) b)	Discuss blending function, and also explain parameterization of a surface patch.  What conditions are required to convert a B-Spline surface to a Bezier Surface? Explain in brief.  [7+8]  Explain the solid modeling concepts of wire frames and Boundary representation methods. Discuss the advantages of each method.  Explain the Constructive Solid Geometry (CSG) method to create models.  [8+7]	/
5.a)	Prepare manual part program for machining the component with 4 holes of 10 mm diameter on 60 mm p.c.d. as shown in below figure. Do not use G41 or G42.	/
<u>A</u> G	Differentiate Manual part programming and Computer assisted part programming. [8+7]	/
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6.a) b) 7.a)	Discuss the a diagram adap Why produc Explain data How is capac	note on APT and adaptive control with tion flow analys collection and so planning during re-	of machining pro optimization sys is is required in rtation of process esource planning	tem turning.  i implementation routing steps in What are the v	Explain with the second of group technology and arious stages in controls.	e block [7+8] nology? ulysis.	_
<b>8.a)</b> b)	change.	sses are changing Flexible Manufa					<u> </u>
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