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	al No. of Questions: 08	No. of Pages: 01
	M.Tech.(CAD/CAM) (Sem1) COMPUTER AIDED DESIGN Subject Code: ME-501 M.Code: 23505	
Tim	ne : 3 Hrs.	Max. Marks: 100
1. 2.	TRUCTION TO CANDIDATES: Attempt any FIVE questions out of EIGHT questions. Each question carries TWENTY marks.	
Ql.	Write short notes on :	
	a) Geometric modelling.	(5)
	b) Surface of revolution.	(5)
	c) Half-spaces.	(5)
	d) Data exchange formats.	(5)
Q2.	<ul> <li>a) Discuss the benefits of CAD/CAM to engineering design as co methods.</li> </ul>	mpared to conventional (5)
	b) Explain various types of coordinate systems needed to display go	eometry and graphics. (5)
	<ul> <li>c) Describe various characteristics of Bezier curve, B-spline curve</li> </ul>	and Hermite curve.(10)
Q3.	Find the radius and the center of the circle that is tangent to two kiradius.	nown lines with a given (20)
Q4.	Find the cubics B-spline curve defined by the points (2, 2), (2, 3), (3	3, 3) and (3, 2). (20)
Q5.	Derive a method by which you can force a Bezier curve to pass to addition to the starting and ending points of its polygon.	hrough a given point in (20)
Q6.	Derive parametric equation of :	(20)
	a) Ruled surface b) Hermite Bicubic Surface	
Q7.	What is sweep representation? Discuss the basic elements and or representation to construct solid object as an example.	perations used in sweep (20)
Q8.	Describe the IGES methodology. Compare various testing metho Which test is the most comprehensive and why?	ds of IGES processors. (20)
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page of Answer Sheet will lead to UMC against the Student.