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Roll	I No. Total No. of Pages	: 01
Tota	al No. of Questions: 08	
	M.Tech.(CAD/CAM) (Sem1) COMPUTER AIDED DESIGN Subject Code: ME-501 M.Code: 23505	
Time: 3 Hrs. Max. Marks		: 100
INST 1. 2.	RUCTION 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.	a) Discuss the benefits of CAD/CAM to engineering design as compared to convermethods.	ntional (5)
	b) Explain various types of coordinate systems needed to display geometry and graph	nics. (5)
	c) Describe various characteristics of Bezier curve, B-spline curve and Hermite curve	e.(10)
Q3.	Find the radius and the center of the circle that is tangent to two known lines with a radius.	given (20)
Q4.	Find the cubics B-spline curve defined by the points (2, 2), (2, 3), (3, 3) and (3, 2).	(20)
Q5.	Derive a method by which you can force a Bezier curve to pass through a given peaddition to the starting and ending points of its polygon.	oint 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 operations used in representation to construct solid object as an example.	sweep (20)
Q8.	Describe the IGES methodology. Compare various testing methods of IGES proceed Which test is the most comprehensive and why?	essors. (20)

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NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any

page of Answer Sheet will lead to UMC against the Student.