Rol Tot		O. Of Questions: 08 M.Tech.(ME) (Sem2) COMPUTER AIDED DESIGN Subject Code: MME-506 M.Code: 38207	Total No. of Pages : 02
	ΓRU At	3 Hrs. CTION TO CANDIDATES: tempt any FIVE questions out of EIGHT questions. ch question carries TWENTY marks.	Max. Marks: 100
Ql.	Wr	ite short notes on :	
	a)	Wireframe models.	(5)
	b)	Computer Integrated Design Process.	(5)
	c)	Half spaces.	(5)
	d)	IGES	(5)
Q2.	De	rive parametric equation of	
	a)	B-spline curve	(10)
	b)	Hermite Bicubic Surface	(10)
Q3.	a)	Discuss the benefits of CAD/CAM to engineering designethods.	n as compared to conventional (5)
		Explain various types of coordinate systems needs graphics.	
	c)	graphics. Describe various characteristics of Bezier curve, curve. d the points on the Bezier starface at $u = 0$ and $v = 0.5$ v	B-spline curve and Hermite (10)
Q4.	(10	d the points on the Bezier sarface at $u = 0$ and $v = 0.5$ v 0, 100), (150, 100), (50, 210), (100, 220), (150, 230, .380).	with control points as (50,100), (60, 300), (120, 350) and (20)

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- Q5. Find the equation of a closed B-spline curve defined by four control points. (20)
- Q6. A rectangle has corner co-ordinates (10,20) (40,20), (40,40), (10,40). This rectangle is rotated by 30° anticlockwise about the point (40,20). Compute the new co-ordinates. (20)
- Q7. What is sweep representation? Discuss the basic elements and operations used in sweep representation to construct solid object as an example. (20)
- Q8. What additional information do we require in hidden line removal in wireframe model?(20)

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sneet will lead to UMC against the Student.

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