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				Reg. No	.:				
			Ques	tion Pap	er Code	: 208	312		
		B.E./B.Te	ch. DEGRE	n. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.					
					th/Tenth Seme		LOUINDIA	2010.	
				Mechanie	cal Engineerin	1g			
			ME 6		PUTER AIDE		gN .		
		(Com	mon to Me	chanical Eng	ineering (Sand hatronics Eng	dwich)/M	anufacturi	ng	
				(Regul	lations 2013)				
	Time	e : Three h	ours				Maximum	: 100 ma	rks
				Answer	ALL questions	s.			
				PART A — (10 × 2 = 20 m	arks)			
	1.	List the v	arious activ	vities involve	d in product d	levelopm	ent.		
	2.	What is the need for concatenation of transformations?							
77	3.	Distingui	sh between	analytic cur	ve and synthe	tic curve	•		
	4.	What is a	hybrid soli	id modeler?					
	5.	What is c	oherence?	What are its	different types	s?.			
	6.	What are	silhouette	curves?					
	7.	List the i	mportance	of geometric	tolerancing.				
	8.	What is o	learance in	engineering	?				
	9.	What is a	ın annotati	on entity?					
	10.	Mention	the need for	r standardize	tion in compu	iter grap	hics.		

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PART B - (5 × 13 = 65 marks) 11. (a) Discuss the stages in the product life cycle and the importance of each Discuss the significance of concurrent engineering approach in limiting Write short notes on parametric representation of synthetic surfaces. (b) Discuss the following for B-rep and CSG schemes: (i) how to represent surface normals and neighborhoods (ii) how to develop a classification algorithm. With a diagram, explain generic hidden line algorithm. 13. (b) Briefly explain various visibility techniques. Give suitable sketches wherever possible. Briefly explain the following traditional tolerance analysis methods with examples. (i) Worst-case analysis (ii) Root sum of squares. Write short notes on (i) Assembly modeling (ii) Mechanism simulation. (b) 15. Explain the Initial Graphics Exchange Specification methodology. (a) Write short notes on (i) Standards for computer graphics (ii) OpenGL. PART C — $(1 \times 15 = 15 \text{ marks})$ 16. Generating and displaying contour images in engineering applications (ex: stress contours in finite element analysis) provide designers with valuable information for sound design decisions. Propose a method and algorithm to develop these contours and their images with a detail case study. 20812