Seat No.:	
Seat No.	Enrolment No.
Jeal Mo	Linoincii ivo.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - WINTER 2013

Subject Name: Computer Aided Design and Analysis		Date: 29-11-2013	
		Total Marks: 70	
1. 2. 1	Attempt all questions. Make suitable assumptions wherever necessary.		
(a) (b)	Explain the product design process. Compare surface modeling with solid modeling.	07 07	
(a) (b)	Explain various solid modeling techniques. Write about the different geometric entities. OR	07 07	
(b)	Write about top-down and bottom-up modeling methodologies.		
(a) (b)	Define feature and explain about the classification of features.		
(a) (b)	Explain the types of coordinate systems with neat sketches. What is data exchange? Discuss about data exchange standards.		
(a) (b)		07 07	
(a) (b)	What are the significance of FEA in product development? Explain. Discuss about thermal analysis.		
(a) (b)	Explain the mesh requirements in FEA. Explain the problem solving methodology in FEA.	07 07	
(a) (b)	Write about time-history post processor.	plications. 07	
	ect N : 10: ctions 1. 2. 3. (a) (b) (b) (a) (b) (b) (a) (b) (b) (a) (b) (b) (a) (b) (b) (b) (b) (ctions 1. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	ect Name: Computer Aided Design and Analysis 10.30 am - 01.00 pm 11. Attempt all questions. 12. Make suitable assumptions wherever necessary. 13. Figures to the right indicate full marks. (a) Explain the product design process. (b) Compare surface modeling with solid modeling. (a) Explain various solid modeling techniques. (b) Write about the different geometric entities. OR (c) Write about top-down and bottom-up modeling method (a) Explain Boolean operations with neat sketches. (b) Define feature and explain about the classification of form OR (a) Explain the types of coordinate systems with neat sketches. (b) What is data exchange? Discuss about data exchange solution of the Explain about fully automatic mesh generation method OR (a) Explain the element types and dimensionality. (b) Explain about fully automatic mesh generation method OR (a) What are the significance of FEA in product developm Discuss about thermal analysis. (a) Explain the mesh requirements in FEA. (b) Explain the problem solving methodology in FEA. OR (a) Write about time-history post processor.	
