Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER-IV • EXAMINATION – SUMMER 2015

	•	t Code: 740801 Date: 01/05/20	15
Tiı	ne: : tructi		70
		<ul><li>Attempt all questions.</li><li>Make suitable assumptions wherever necessary.</li><li>Figures to the right indicate full marks.</li></ul>	
Q.1	` '	Describe the factors influencing on product design? Discuss how the creativity of the individuals is inhibiting?	07 07
Q.2	` ′	Describe the technologies available for physical prototyping and rapid manufacturing.  Write the short note on õsynergic integration technologiesö.  OR	07 07
	(b)	Discuss the benefits of view-based design.	07
Q.3	(a)	Write how the geometric and topological information stored in various types of geometric models.	07
	(b)	What do you mean by reverse engineering? When it is necessary?  OR	07
Q.3	` '	What are the requirements of solid modeling scheme? Explain the working principle of laser scanning measurement method.	07 07
Q.4	` '	Write difference between virtual reality and augmented reality.  What do you mean by computer-aided engineering and list the names of CAE tools.	07 07
		OR	
Q.4	` '	Write the guide lines for design for manufacturing. Explain: (a) Preloading of double-nut ball lead screw; (b) Offline control programming.	07 07
Q.5	` ′	Explain with neat sketch the architecture of variant CAPP system.  Write the working principle and advantages of laminated object manufacturing.  OR	07 07
Q.5	` '	Discuss the benefits of product data management system. Write the shot note on shape deposition manufacturing.	07 07

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