Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER- I (New course)• REMEDIAL EXAMINATION – SUMMER 2015

Subject Code: 2712408Date:12/Subject Name: Plastics Mould & Product Design SimulationsTime: 10:30 am to 1:00 pmTotal MarInstructions:			
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain mould design principles. Explain plastic product design principles.	07 07
Q.2	(a) (b)	How will you select injection moulding machine for your product? Discuss the classification of injection moulds. OR	07 07
	(b)	Explain the types of cooling with neat sketches.	07
Q.3	(a) (b)	Discuss about mould construction and assembly. Discuss the types of loading chamber design for compression mould. OR	07 07
Q.3	(a) (b)	Explain dog leg cam and cam track actuation systems with neat sketches. Discuss the heat losses in compression mould.	07 07
Q.4	(a) (b)	How will you select between compression and transfer moulding? Discuss the factors affecting shrinkage. OR	07 07
Q.4	(a) (b)	Discuss the modern approaches for product design. How will you determine gate size and location?	07 07
Q.5	(a) (b)	Compare the materials for prototype injection moulds. How processing variables affecting product design? Explain. OR	07 07
Q.5	(a) (b)	Explain the role of CAD in plastics product and mould design. Explain stereolithography with neat sketch.	07 07
