## **GUJARAT TECHNOLOGICAL UNIVERSITY** DIPLOMA ENGINEERING – SEMESTER – III • EXAMINATION – WINTER 2015

Subject Code: 332303Date: 07			-12 -2015	
Ti	truction 1. Att 2. Ma 3. Fig	Name: Design Fundamentals of Mould Total Marks:   0:30 AM TO 01:00 PM Total Marks:   ns: Total Marks:   tempt all questions. Total Marks:   ake suitable assumptions wherever necessary. Total Marks:   gures to the right indicate full marks. Charks:   ch question carry equal marks (14 marks) Total Marks:	70	
Q.1		Design hand injection mould for any suitable product and draw the following: (i) Part drawing (ii) Sectional elevation (iii) Plan. Assume suitable dimensions.	14	
Q.2	(a) (b)	Define Parting Surface. Sketch any three types of parting surfaces. Differentiate Integer Method and Insert-Bolster Method. OR	07 07	
Q.3	(b) (a) (b)	Give function of any seven elements of two plate machine injection mold. Sketch guide pillar and guide bush design. Explain balancing of runner with neat sketch. OR	07 07 07	
Q.3	(a) (b)	Sketch sprue gate. List advantages and disadvantages of sprue gate. Explain positioning of gate with suitable examples.	07 07	
Q.4	(a) (b)	List various ejector elements. Sketch any three of them. Explain stripper plate ejection with neat sketch. OR	07 07	
Q.4	(a) (b)	Draw a neat sketch of ejector plate assembly. What is the function of push back pin? Draw a neat sketch of push back pin ejector assembly return system.	07 07	
Q.5	(a) (b)	Sketch any two types of integer cavity plate cooling. Give significance of cooling and sketch baffle cooling technique. OR	07 07	
Q.5	(a) (b)	Draw a neat sketch of helical core cooling technique. Give material of any seven elements of machine injection mold.	07 07	

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