Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII EXAMINATION - WINTER 2015

Subject Code:182301 Date:09/12		2015	
Subj	ect l	Name: Plastics Mould & Die Design II	
	Time: 2:30pm to 5:00pm Total Marl		s: 70
Instru			
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What are the factors affecting shrinkage of product in injection moulds? How to consider shrinkage in injection moulds while designing?	07
	(b)		07
Q.2	(a)	Explain about i) Ejector plate, ii) Ejector retainer plate, iii) Push back pin, iv) Blade Ejector.	07
	(b)	Describe the ejection methods used for ejecting internal threaded components of injection moulds.	07
	- ·	OR	. –
	(b)	Write a short note on i) Heat Rod, ii) Heat Pipe.	07
Q.3	(a)	How bubbler cooling is better than baffle cooling? Explain.	07
	(b)	What are the methods used for cooling integer cavity plate? Briefly explain about each method.	07
Q.3	(a) (b)		07 07
Q.4	(a) (b)		07 07
Q.4	(a) (b)	Explain about hydraulic split actuation system used in injection moulds. How to cool shallow and deep cores of an injection moulds?	
Q.5	(a) (b)	What are the different types of Transfer moulds? Explain. What are the different types of Extrusion dies? Explain about any two. OR	07 07
Q.5	(a)	Explain about i) Air Ejection, ii) Valve Ejection used in injection moulds.	07
	(b)	What are the different parts of Two plate fully automatic injection mould? Draw the single cavity two plate injection mould for a disc of diameter 50 mm thickness 2 mm.	07

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