GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VIII EXAMINATION – WINTER 2015

Subject Code:183602 Subject Name: Design & Fabrication of Molds Time: 2:30pm to 5:00pm Instructions: Date:12/12/2015

Total Marks: 70

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	automatic flash mold with a sketch.	07
	(b)	Explain bulk factor in compression mold. How to calculate loading chamber depth?	07
Q.2	(a)	Write about transfer molding process with the help of a sketch.	07
	(b)	How to calculate number of cavities in transfer molding? OR	07
	(b)	Write down the advantages and disadvantages of transfer molding.	07
Q.3	(a)	1 1 5 1	07
	(b)	What is venting in injection molds? What is its importance in moulds? Where the venting to be provided in moulds?	07
		OR	
Q.3	(a)	Explain about Hot runner moulds. How they differ from cold runner moulds?	07
	(b)	Describe the tubing die with a neat sketch.	07
Q.4	(a)	What are the selection criteria of a mould material? List out the mould materials and their applications for a standard mold.	07
	(b)	Write the advantages and applications of pre hardened steel material. OR	07
Q.4	(a)	Define runner. What are the types of runners? Explain about them.	07
	(b)	Write a short note on fan gate and rectangular edge gate.	07
Q.5	(a)	How to calculate number of cavities in injection moulds? Explain.	07
	(b)	How to control the temperature of moulds? Explain.	07
05	(a)	OR Explain the blow molding process with the help of a sketch. What are the	07
Q.5	(a)	applications of blow molding?	07
	(b)	Define CAD. Explain the steps involved in CAD process. What are the	07
	(~)	benefits of implementing CAD?	
