Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – WINTER 2013

Su	bject	Code: 152301 Date: 27-11-2013	
Su	bject	Name: Injection Moulding Technology	
Tiı	me: 1	0.30 am - 01.00 pm Total Marks: 70	
Inst	tructio		
	1. 2. 3.		
Q.1	(a)	With the help of graph explain Injection cycle.	07
	(b)	What is nozzle? Explain Standard nozzle & Needle type shut off nozzle.	07
Q.2	(a)	What is clamping system? Provide types of it? Compare both hydraulic & toggle system.	07
	(b)	Explain safety steps in injection molding process.	07
		OR	
	(b)	What is two stage plunger machine? Explain it.	07
Q.3	(a)	Define Followings:- 1. Sprue 2. Clamping Force 3. Open-loop Control 5. Cooling time 6. Masterbatch 7. Suck-back	07
	(b)	What is RIM process? Explain in detail.	07
	()	OR	
Q.3	(a)	How you start up and close injection molding process explain it in detail.	07
	(b)	What is Gas assisted injection molding machine? Explain it.	07
Q.4	(a)	Explain pvT Diagram.	07
	(b)	Explain nitriding process done on different injection molding machine part. OR	07
Q.4	(a)	Explain cavity pressure profile.	07
	(b)	What is screw? Draw and explain its each terminology.	07
Q.5	(a)	Provide types of clamping system. Explain Lock & Block clamping system.	07
	(b)	What is clamping system? Explain Double-toggle clamping system. OR	07
Q.5	(a)	Explain following (A) Ball type tip, (B) Ring Type tip	07
-	(b)	Explain melting of plastic on screw.	07
