Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – SUMMER 2013

y .		de: 152301 Date: 14-05-2013	13
Time		me: Injection Moulding Technologies 0 am - 01.00 pm Total Marks: 70	
	2. N	tempt all questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.	
Q.1	(a) (b)	Draw the screw and explain its each terminology. What is screw output? Explain.	
Q.2	(a)	 Cavity Cooling time Hash Master-batch Toggle Tonnage Insert Molding 	07
·	(b)		07
	(b)		07
Q.3	(a) (b)	Explain Reciprocating Injection molding process with neat sketch. What is nozzle? Explain Standard nozzle & Nylon nozzle. OR	
Q.3	(a) (b)	Explain melting of plastic on screw. Explain following (A) Ball type tip, (B) Ring Type tip	
Q.4	(a) (b)	Provide types of clamping system. Explain Mono-toggle clamping system. Explain the nozzle alignment & controlling the temperature of nozzle. OR	
Q.4 Q.4	(a) (b)	Provide types of clamping system. Explain Hydraulic clamping system. What safety consideration must be followed in injection molding process?	
Q.5	(a)	Explain machine start up and close up procedure in injection molding machine.	07
	(b)		07
Q.5	(a) (b)	Explain close loop & open loop system. Explain basic principle of screw conveying.	
