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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (OLD) - EXAMINATION – SUMMER 2018			
Subject Code:152301 Date:04/05/2018			
Subject Name:Injection Moulding Technologies			
	Time	:02:30 PM to 05:00 PM Total Marks: 70	
Instructions:			
 Attempt all questions. Make suitable assumptions wherever necessary. 			
		Figures to the right indicate full marks.	
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Q.1		Explain start up and shut-down process for injection molding process.	07
	(b)	What are the advantages & disadvantages of Injection moulding	07
Q.2		Differentiate between Hydraulic and Toggle clamping systems.	07
	(b)	Compare between Hydraulic & Electrical drives. OR	07
	(b)	Describe Gas assisted Injection Moulding process and its applications	07
0.2		Write down causes & remedies for :	07
Q.3	b (a)	(i) Weld line (ii) Sink marks	07
	(b)	Describe Reaction Injection Moulding process and its applications	07
		OR	
Q.3	b (a)	Write down causes & remedies for :	07
	(b)	(i) Warpage (ii) Burn marks	07
	(b)	Explain Standard nozzle and Needle type shut off nozzle.	07
Q. 4		What is single stage plunger machine? Explain it.	07
	(b)	With the help of graph explain Injection cycle.	07
Q. 4	(a)	What is nitriding? Explain nitriding process on injection molding machine part.	07
Ľ	(b)	Explain about maintenance of Injection molding.	07
Q.5	5 (a)	Explain PVT diagram in Injection Moulding	07
· ·	(b)	Explain cavity pressure profile in Injection Molding.	07
		OR OR	
Q.5		Explain melting of plastic on screw.	07
	(b)	Explain about Injection molding of Thermoset.	07
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