GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III(New) EXAMINATION – SUMMER 2016

Subject Code Subject Name Time:10:30 A	Date:04/06/2016 Total Marks: 70	
2. Make	pt all questions. suitable assumptions wherever necessary. es to the right indicate full marks.	
		MARKS
Q.1 1 2 3 4 5 6 7 8 9 10 11	1 8 9	ral set nite ne] ive
	 water? (a) LDPE (b) PP (c) HMHDPE (d) PVAc Define specific gravity. What is Newtonian liquid?Define Explain in brief how the specimen prepared from liques resin? Define and explain in brief about conditioning . 	uid 03 04 for 07
(c) Q.3 (a) (b) (c)	OR List the purpose of testing. List the preliminary tests are carried out for the sim identification of plastics. Write flame characteristic and kinds of smoke genera during burning of PS and PP. For plastics material, explain about stress-strain curve	07 ple 03 ted 04
Q.3 (a) (b)		03 for 04

		polyolefins and caprolactum.		
	(c)	Explain tensile strength test in detail.	07	
Q.4	(a)	Explain specific gravity test for plastic material in brief.	03	
	(b)	Define: (1) Yield point (2) proportional limit (3)	04	
		Toughness (4) Modulus of elasticity		
	(c)	Explain flexural strength test for plastics. Explain the	07	
		factors affecting the test result in brief.		
OR				
Q.4	(a)	Give the density of the following:	03	
		(1) PTFE (2) Nylon (3) PMMA		
	(b)	List the different Impact test carried out for plastic	04	
		material.		
	(c)	Explain the factors affecting the Impact strength.	07	
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Q.5	(a)	i e	03	
		to determine compressive strength of plastics material.		
	(b)		04	
	(c)	Define Melt flow index.Explain the test to determine melt	07	
		flow behavior of plastic material in detail with factors		
		affecting the test results.		
~ -		OR		
Q.5	(a)	List the different types of hardness test carried out for	03	
	(1)	plastics material.		
	(b)	Explain about Abrasion Resistance test in brief.	04	
	(c)	Define Hardness. Explain Rockwell hardness test in	07	
		detail.		
