

(c)

and its applications.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- V (New) EXAMINATION - WINTER 2019

Subject Code: 2153602 Date: 21/2 Subject Name: Polymer & Rubber materials - I Time: 10:30 AM TO 01:00 PM Total Ma			/11/2019	
			arks: 70	
	uction			
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
0.1	()		MARKS	
Q.1	(a) (b)		03 04	
	(c)		07	
Q.2	(a)	Write the properties of Maleic anhydride.	03	
	(b)	What do you mean by cross linking? Explain Silane method of PE crosslinking.	04	
	(c)	Explain in detail production of PVC plastic material with neat flow diagram.	07	
		OR		
	(c)	·	07	
Q.3	(a)		03	
	(b)	What are the different methods of HDPE Production. Explain any one in brief.	04	
	(c)		07	
	(0)		0.	
Q.3	(a)	OR How the PAN polymer is synthesized?	03	
Ų.S	(b)		03	
	(6)	Explain with its mechanism.	04	
	(c)	-	07	
Q.4	(a)		03	
	(b)	Draw structure and write applications of Nomex and Kevlar.	04	
	(c)	Write a short note on following polymeric materials along with its structure. (a) PET (b) PBT (c) PTT	07	
		OR		
Q.4	(a)		03	
	(b)	* * * * * * * * * * * * * * * * * * *	04	
	(c)	Write in detail about the structure, properties and applications of EPDM.	07	
Q.5	(a)		03	
	(b)	Crystal Polymers.	04	
	(c)	applications.	07	
c -	, .	OR	<u> </u>	
Q.5	(a)	Write the structure and applications of Polyoxymethylene polymer.	03	
	(b)	What do you mean by modified polymer? Explain in detail.	04	

07

Explain in detail the production for Polyisobutylene with its structure
