Seat No.:	Enrolment No.
-----------	---------------

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- Vth SEMESTER-EXAMINATION – MAY/JUNE - 2012 Subject code: 152303 Date: 04/06/2012

•	Subject Name: Plastics Recycling and Waste Treatment		72012
Time: 02:30 pm – 05:00 pm Total Marks			.kg. 70
Instructions:			KS. /U
1. Attempt all questions.			
		ke suitable assumptions wherever necessary.	
		ires to the right indicate full marks.	
	8-		
Q.1	(a)	Define- Additives, Shredding, Virgin material, Fillers	07
	(b)	Describe the complete process of "Plastics Coated Cable Scrape"	07
		Recycling	
0.4	()		07
Q.2	(a)	Give details of recycling of Polyethylene Terepthalate (PET). List the sources of PET waste.	07
	(b)	Give details of Material Identification Marking	07
	(D)	OR	U7
	(b)	Give details of medical fields where plastics are used widely. List the	07
	(,,,	individual plastics material used for particular application in human body	
Q.3	(a)	Describe in detail about the Plastics Roads. With the help of flow sheet	07
		describe the road manufacturing process, using plastics.	
	(b)	Give details of Plastics used in Orthopedic implants	07
0.2	()	OR	0=
Q.3	(a)	List the various applications of recycled PET	07
	(b)	Describe the various plastics used for making amusements / fun articles	07
		for garden and amusement parks	
Q.4	(a)	Write a short note on "Land fill of Plastics Waste"	07
C	(b)	Write a short note on application of recycled PVC	07
	, ,	OR	
Q.4	(a)	Discuss the Life Cycle Root of Plastics in India. Give its flow diagram	07
	(b)	Give details of Energy recovery from Plastics Waste. Discuss the process	07
		"Incineration" in detail	
0.5	(a)	List the sources of conception of wester plastics bettles. Discuss its one of	07
Q.5	(a)	List the sources of generation of waste plastics bottles. Discuss its one of the recycling method.	07
	(b)	Explain the "Modifying the properties of Plastics through incorporation	07
	(6)	of miscellaneous additives.	07
OR			
Q.5	(a)	Give the general application of thermoset materials. Give its method of	07
="		recycling and usage there after	
	(b)	Explain in short about the important thermal conversion technologies of	07
		recycled plastics.	

.