Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-VII • EXAMINATION - SUMMER • 2014

	•	Code: 372303 Dame: High Performance and Green Plastics	ate:16/06/2014	
Tin		0:30 am – 1:00 pm ons: Attempt all questions. Make suitable assumptions wherever necessary.	otal Marks: 70	
	3. 4.	Figures to the right indicate full marks. English version is considered to be Authentic.		
Q.1	(a) (b)	List the applications of poly (amide imide). Explain properties & applications of PC-ABS.		07 07
Q.2	(a) (b)	Write advantages & disadvantages of biodegradable polymers. Explain properties of chlorinated polyether. OR	ers.	07 07
	(b)	Write properties & applications of Solid Polymer Electrolyt	es in brief.	07
Q.3	(a)	List various types of high temperature polymers and explain applications of any one.	n in brief	07
	(b)	Write the short note on "thermoplastic elastomers" (TPE). OR		07
Q.3	(a) (b)	List preparation methods for alloys & blends and explain m Explain properties & applications of NYLON-PBT.	elt blending.	07 07
Q.4	(a) (b)	Explain properties & applications of PPE-PS. Classify biodegradable polymers in detail with example. OR		07 07
Q. 4	(a) (b)	Write properties & applications of Poly lactide. Explain biological degradation of polymer.		07 07
Q.5	(a) (b)	Write properties & applications of Poly esteramide (PEA). Explain the factors affecting biodegradability of polymers. OR		07 07
Q.5	(a) (b)	Explain injection molding process for biodegradable polym Write short note: "Additives for biodegradable polymer".	ers.	07 07
