Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – SUMMER 2013

Subject Code: 150301 Date: 20		Code: 150301 Date: 20-05-20	0-05-2013
U	: 10	Name: Biomaterials and Implants 0.30 am - 01.00 pm Total Marks:	70
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)		07 07
Q.2	(a) (b)	• • •	07 07
		OR	
	(b)	Write a short note on Titanium and Titanium Alloys for Bio-Implants.	07
Q.3	(a) (b)		07 07
		give their Medical Uses.	
		OR	
Q.3	(a)	Explain Relatively Bioinert Ceramics and also give their uses.	07
	(b)	Explain Drug Incorporation Polymer Gels.	07
Q.4	(a)	Give the applications of Surface reactive ceramics and Explain formation of glass ceramics.	08
	(b)		06
	(~)	OR	
Q.4	(a)		06
•	(b)	• •	08
	()	Interaction.	
Q.5	(a)	Write a short note on Intraocular Lens and contact lens.	07
	(b)		07
		OR	
Q.5	(a)	Write a short note on Mechanical Heart valves prostheses.	07
	(b)	Explain Material Selection Criteria and Preclinical Testing.	07
