Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - SUMMER • 2015

Su	ıbjec	t Code: 150402 Date: 05/0	5/2015
	•	t Name: Immunology	
		02.30pm-05.00pm Total Mai	:ks: 70
Ins	2	1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain different barriers of non specific host defenses with their mechanism. Explain major events of inflammatory response with a neat diagram.	07 07
Q.2	(a) (b)	Draw a neat diagram of cross section of thymus and explain its role functioning in immune system. Write a detailed account on lymphoid cells of our immune system.	and 07
		OR	
	(b)	Distinguish between apoptosis and necrosis.	07
Q.3	(a) (b)	Explain the terms adjuvant, epitope and haptens. What functions does antibody perform in our body?	07 07
		OR	
Q.3	(a) (b)	What is equivalence zone? Explain the technique of immunodiffusion. What are the basic functions of complement components?	10 04
Q.4	(a) (b)	Draw a neat table differentiating all four types of hypersensitivities. Write a short note on whole organism vaccine.	07 07
		OR	
Q.4	(a) (b)	Write short note on vector transmitted disease. What are immunologic basics of graft rejection?	07 07
Q.5	(a) (b)	Explain how Hemagglutination is used in Blood Typing. Explain classical pathway of complement sytem.	07 07
		OR	
Q.5	(a) (b)	Draw a neat diagram of IgG with all labellings. Differentiate between active and passive immunity.	07 07
