Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY BE- Vth SEMESTER-EXAMINATION - MAY/JUNE - 2012

Subject code: 150405 Subject Name: The Science of Life Fime: 02:30 pm – 05:00 pm Total Ma		5/2012	
		rks: 70	
1. 2.	Atte Mal	empt all questions. Ke suitable assumptions wherever necessary. Arres to the right indicate full marks.	
Q.1	(a) (b)	Explain classification of monosaccharide. Prove DNA as a genetic material in prokaryotes.	07 07
Q.2	(a) (b)	Explain the term antibody. Write in detail structure of it. Write a short note on processing of m-RNA OR	07 07
	(b)	Explain Clover leaf model of t-RNA.	07
Q.3	(a) (b)	Enlist properties of genetic code.	10 04
Q.3	(a) (b)	OR Write a short note on transcription in eukaryotes. Explain charging of t-RNA with amino acid.	10 04
Q.4	(a) (b)	Discuss in detail about evolution of life Write a detail note on allergy and asthma.	07 07
Q.4	(a) (b)	OR Define cell. Enlist various cellular organelles. Explain any one in detail. Explain the term antigen. Differentiate antigenicity and immunogenicity.	07 07
Q.5	(a) (b)	Describe in detail about adjuvants. Discuss in detail how blood cells are synthesized? OR	07 07
Q.5	(a)	What are the major differences between prokaryotic and eukaryotic cellular system.	07
	(b)	Define following terms with suitable explanation: • Innate immunity • Adaptive immunity • Antigenicity	07
