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U

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION – SUMMER 2013

•		ode: 150405 Date: 23-05-2013	5
Time		ame: The Science of Life 30 am - 01.00 pm Total Marks: 70)
	1. A 2. N	attempt all questions. Take suitable assumptions wherever necessary. Sigures to the right indicate full marks.	
Q.1	(a) (b)	Write a short note on polysaccharides with examples. Explain classification of protein based on structure.	07 07
Q.2	(a) (b)	Explain the term antibody. Write in detail structure of it. Discuss post transcriptional modification of tRNA. OR	07 07
	(b)	Write initiation process of replication in prokaryotes with neat diagram.	07
Q.3	(a) (b)	Give a detail account on translation in prokaryotes. Describe wobble hypothesis.	10 04
Q.3	(a)	OR Discuss transcriptional process in eukaryotes.	10
Ų.J	(a) (b)	Enlist properties of genetic code.	04
Q.4	(a)	Write a detail account on origin of life, how multicellular organisms evolved?	07
	(b)	Differentiate the term adaptive immunity and innate immunity OR	07
Q.4	(a)	Define and differentiate following terms with brief explanationProkaryotesEukaryotes	07
Q.4	(b)	Give a detail account on cell.	07
Q.5	(a) (b)	Explain in brief mechanism of inflammation. Discuss various component of immune system OR	07 07
Q.5	(a) (b)	Describe in detail about haematopoisis. Define the term antigen. Differentiate between antigenicity and immunogenicity	07 07
