Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION - SUMMER • 2014

U		Code: 143504 Date: 25-06-2014 Tame: Fundamental of Biotechnology	ı
•	: 10:	30 am - 01:00 pm Total Marks: 70)
institut	1. 2. 1	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Explain the components of DNA and write a detail note on DNA along with Chargaff's rule.	07
	(b)	Dark 1 1' - 1t's and antennetic	07
Q.2	(a)	Write a note on r-RNA and also explain functional sites of ribosomes along with diagram.	07
	(b)	C + DNIA	07
		OR	
	(b)	Write a short note on genetic code and wobble hypothesis in detail.	07
Q.3		present in innate immunity and write a note on physical/anatomic barrier.	07 07
	(b)	OR	0,
Q.3	(a)	the components of acquired immunity.	07
	(b)	Write a note on B and T lymphocytes.	07
Q.4	(a)	What is antigenicity and immunogenicity? Write four properties of immunogen and explain all in detail.	07
	(b)	OR	07
Q.4	(a) (b)		07 07
Q.5	(a)	Write the definition of DNA replication, explain modes of replication and explain unidirectional and bidirectional replication.	07
	(b)	OR	07
Q.5	(a) (b)	- 1 1 D 1'-sting in analysis and	07 07
