Seat No.:	Enrolment No
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## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-IV EXAMINATION - SUMMER 2016

Subject	Cod	e:14	43504 Date:10/06	<b>5/2016</b>
Subject	Nan	ne:I	Fundamentals of Biotechnology	
Fime:10:30 AM to 01:00 PM Total Mar				
Instruction	ns:			
1. 2. 3.	Mal	ce su	all questions.  itable assumptions wherever necessary.  to the right indicate full marks.	
	Q.1	(a) (b	What is Wobble hypothesis and how it works?	07 07
	Q.2	(a) (b)	Write brief note on Vector.	
		(b)	OR Define cell. Differentiate prokaryotic and eukaryotic cells?	0=
	Q.3	(a) (b)	Enlist type of immunity and describe in detail innate and acquired immunity. Define immunity. Explain primary and secondary immune response.	07 07 07
	Q.3		What is antigen? Classify antigen and explain some properties.  Define antibody and explain structure and types.	07 07
	Q.4	(a) (b)	Write short note on ABO and Rh system. Explain alternation of DNA.	07 07 07
	Q.4	(a)	OR What do you understand by biomolecules? Explain the role and function of carbohydrates.	07
		(b)	Explain the method of passing replication through Elongation and fermentation.	0=
	Q.5	(a) (b)	What is biogas? Briefly describe biogas production with reaction involved in it. Explain Watson and Crick model for DNA.	07 07 07
	0.7		OR	
	Q.5	(b)	Explain factor affect the enzyme activity. How the biotechnology can be a solution of pollution in chemical industries? Explain in brief?	07 07

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