Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII • EXAMINATION - WINTER • 2014

	•	Code: 170405 Date: 29-11-20	14
Ti	-	Attempt all questions. Make suitable assumptions wherever necessary.	70
Q.1	(a) (b)	What is proteomics? Describe different branches of proteomics. Describe various research and commercial applications of proteomics.	07 07
Q.2	(a) (b)	What is genomic variation? Discuss various kinds of genomic variations. Describe various advantages and applications of genomics. OR	07 07
	(b)	Comment on eukaryotic genome organization.	07
Q.3	(a) (b)	How DNA is packed in the organization of chromosome? What is synthetic biology? Describe the concept and applications of synthetic biology in the modern times.	07 07
		OR	
Q.3	(a) (b)	Describe various types of generalized nucleotide databases. Describe various types of specialized nucleotide databases.	07 07
Q.4	(a) (b)	Describe the principle and applications of Expressed Sequence Tag. Enlist important protein databases. Describe any two of them. OR	07 07
Q.4	(a) (b)	Comment on the construction and applications of protein microarray. Comment on the construction and applications of DNA microarray.	07 07
Q.5	(a) (b)	Describe the principle, construction and use of SAGE. Describe the principle, procedure and use of PAGE. OR	07 07
Q.5	(a) (b)	Comment on the use of Mass Spectroscopy in protein science. Comment on Rational Drug Designing.	07 07
