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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-III Remedial Examination March 2010

		Subject Name: Introductory Biology 03 / 2010 Subject Name: Introductory Biology Time: 03.00 pm – 05.30 pm Total Marks: 70	
Insti	1. 2.	ions: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Discuss the use and misuse of biology in the modern time. Explain adaptation with suitable example.	07 07
Q.2	(a) (b)	Explain the major theories of origin of life. Explain Miller's experiment for organic synthesis. OR	07 07
	(b)	Explain the various "levels of biological organization".	07
Q.3	(a)	Give the classification of plant tissues and mention the functions performed by various types of plant tissues.	07
	(b)	Describe the internal structure of <i>Dicot</i> stem with the help of a labeled diagram.	07
Q.3	(a)	OR Describe the basic characteristics of animal tissue and give the classification of animal tissues.	07
	(b)	Describe structure, location and functions of epithelial tissue with suitable diagrams.	07
Q.4	(a)	What is water potential? Describe the process of absorption and movement of water in plants.	07
	(b)	Comment on plant nutrition with respect to micronutrients and macronutrients. OR	07
Q.4	(a)	Comment on "transpiration is a necessary evil". Mention the factors affecting transpiration.	07
	(b)	What is photosynthesis? Explain the mechanism of light reaction. Mention the factors that affect photosynthesis.	07
Q.5	(a) (b)	Describe various modes of nutrition in animals. Comment on nutritional deficiencies and disorders. OR	07 07
Q.5	(a) (b)	Comment on "hormonal control of digestion in human". Describe the basics of human nervous system.	07 07