GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III • EXAMINATION – SUMMER • 2014

Subject Code: 130401 Date: 30-05-20 Subject Name: Introductory Biology			
	ructio 1. 2.	Attempt all questions.	
Q.1	(a)	What is the relation between observation and hypothesis? Write the basic characteristics of Organisms.	07
	(b)	Discuss biology of respiration in humans.	07
Q.2	(a)	Write down the hypothesis of Oparin and Haldane discussing primeval earth condition and its significance.	07
	(b)	Discuss Lamarck's theory of evolution and state its various propositions OR	07
	(b)	Write a note on: Use and Misuse of Biology.	07
Q.3	(a)	Explain the terms: [1] Plant nutrients [2] Plant-water relations	07
· ·	(b)	Enlist basic characteristics of animal tissues.	07
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Q.3	(a)	What is natural selection in modern terms? Elucidate the three different effects of natural selection on variation.	07
	(b)	Explain the terms: [1] Development and Reproduction [2] Metabolism	07
Q.4	(a)	Give the functions of various types of animal tissues with the help of labeled diagrams.	07
	(b)	Discuss defensive mechanisms in plants.	07
Q.4	(a)	Write a note on the morphology of flowering plants.	07
-	(b)	With a diagram, discuss human nervous system.	07
Q.5	(a)	Elaborate on the major theories on origin of life.	07
•	(b)	Write a note on: light reaction and dark reaction in plants. OR	07
Q.5	(a)	Discuss the biology of locomotion in animals.	07
-	(b)	Give an account of nutritional disorders.	07
