

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (NEW) EXAMINATION - SUMMER 2019			
Subject Code: 2130401 Date: 07/06			/2019
Sub	ject	Name:Introductory Biology	
Time: 02:30 PM TO 05:00 PM Total Marks			s: 70
Instr			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
			MARKS
Q.1	(a)	Explain the concept of speciation.	03
	(b)	Write a note on use and misuse of biology.	04
	(c)	Explain different modifications acquired by the roots with example.	07
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Q.2	(a)	1	03
	(b)	**	04
	(c)	Explain morphology of a flower with a neat diagram	07
	(.)	OR	07
0.2	(c)	Draw neat diagram of human heart with proper annotation.	07
Q.3	(a)		03
	(b)		04 07
	(c)	Comment on the modes of nutrition in animals and briefly describe	U7
		nutritional deficiency disorders. OR	
Q.3	(a)		03
Ų.S	(a) (b)	-	03
	(c)	Explain biology as the "science of life" and comment on the emergence	07
	(C)	of contemporary biology	07
Q.4	(a)		03
Q.T	(b)		04
	(c)	Describe the process of absorption and movement of water in a plant	07
	(0)	tissue.	•
		OR	
Q.4	(a)	What is role of joints in movement?	03
	(b)	Explain inflorescence.	04
	(c)	What are endocrine glands? Discuss the basics of human	07
		Endocrine system.	
Q.5	(a)	What is adventitious root? Give example.	03
	(b)	Enlist various factors affecting photosynthesis. Explain any two in detail.	04
	(c)	Explain Calvin cycle of photosynthesis.	07
		OR	
Q.5	(a)	Where does light reaction take place? What are the products of light reaction?	03

(b) Explain skeletal and cardiac muscle tissue.

(c) Explain epithelial tissue in detail.

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