Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – SUMMER 2013

Su	bject	Code: 130401 Date: 31-05-2013	
Tiı	ne: 0 cructio	Name: Introductory Biology 12:30 pm – 05:00 pm Total Marks: 70 ons: Attempt all questions.	
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Q.1	(a) (b)	Narrate the contributions of Aristotle. Write about role of biology in dispelling myths, misconceptions and disbeliefs.	07 07
Q.2	(a) (b)	What are the basic characteristics that unify all living organisms? Explain the concept of biological species and evolutionary species. OR	07 07
	(b)	Distinguish between homologous and analogous organs. Give examples of each.	07
Q.3	(a) (b)	Explain different modifications acquired by the roots with example. Write a short note on different parts of leaf with a neat diagram. OR	07 07
Q.3	(a) (b)	Write a detailed account on complex tissues found in plants. Explain internal structure of dicotyledonous root with a neat diagram.	10 04
Q.4	(a) (b)	Draw a chart showing classification of connective tissue in animals and explain each in brief. What is transpiration? Explain the factors affecting it.	10 04
Q.4	(a) (b)	OR Explain the mechanism of absorption and movement of water in plant roots. Explain C4 pathway in plants.	07 07
Q.5	(a) (b)	Explain the process of digestion in animals. Draw a neat diagram of human respiratory system and explain it. OR	10 04
Q.5	(a) (b)	Mention four cerebral lobes and state their major functions. Discuss the role of hypothalamus and pituitary in maintaining physiological processes.	07 07
