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Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Sul	bject	Code: 130301 Date: 30-12-2014	
Tir	•	Name: Life Sciences-1 2.30 pm - 05.00 pm Total Marks: 70 ons:	
		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain the structure of heart with neat diagram. Define Blood pressure and its types. And also explain the regulation of Blood pressure.	07 07
Q.2	(a)	Define the following: (i) blood regurgitation (ii) frontal plane (iii) EMG (iv) vital capacity (v) diffusion (vi) physiology (vii) excitability	07
	(b)	Describe the structure of cell with diagram.	07
	(b)	OR Short note on: Connective tissues.	07
Q.3	(a) (b)	Describe the types of bone in detail. Explain the structure of neuron with diagram.	07 07
Q.3	(a) (b)	OR Discuss the types of joints in detail. Explain the generation of action potential with diagram.	07 07
Q.4	(a) (b)	Describe the whole respiratory tract with diagram. Write down the characteristics of blood. Explain the composition of blood and list out its functions.	07 07
		OR	
Q.4	(a) (b)	Explain the mechanism of respiration. Short note on: RBC and erythropoiesis process.	07 07
Q.5	(a) (b)	Explain the structure of eye with neat diagram. Short note on: tongue	07 07
Q.5	(a) (b)	OR Explain the structure of ear with neat diagram. Explain the anatomy of nose with diagram.	07 07
