Seat No.: Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III • EXAMINATION – SUMMER 2013

	-		Date: 29-05-2013	
Subject Name: Life Sciences-1 Time: 02.30 pm - 05.00 pm Instructions:			Marks: 70	
Insti	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary.		
Q.1	(a)	Explain the anatomy of heart with neat diagram and give a short note on flow of blood circulation in the body.	07	
	(b)	Draw a structure of a cell and give a note on Cell membrane, Mitochondria, Lysosome and Golgi body.	07	
Q.2	(a) (b)	Draw the structure of Respiratory tract and describe each part in detail. Draw and describe the structure of an adult bone and explain the Development of bone. OR	07 07	
	(b)		07	
Q.3	(a)	Draw the structure of Eye and explain the Muscles of Eye orbit, Retina, Lens.	07	
	(b)	Enlist various types of Tissues and describe them with necessary diagrams.	07	
Q.3	(a)	OR Enlist the different Blood Components and give detail note on	07	
	(b)	Erythrocytes and Leucocytes. What is Cardiac Output? How human body overcome from low BP to normal BP by Saline Infusion.	07	
Q.4	(a)	Draw structure of a Skelton Muscle fiber and explain the Membrane	07	
	(b)	Potentials and Action Potentials. Explain the Transport of Carbon Dioxide in Blood and Describe about Chloride shift.	07	
Q. 4	(a) (b)	OR What is Cardiac Cycle, Explain Cardiac Cycle in detail. Define Homeostasis and explain how different organs works together to maintain homeostasis.	07 07	
Q.5	(a)	Explain the anatomy of Thoracic cage in detail. What are the False Ribs and why they called as False Ribs.	07	
	(b)	 Define: Sagittal Plane, Flexion, Atrial Blood pressure, Posterior Position. Give a note on Vertebral Column and their different Vertebra. 	04 03	
0.5	(a)	OR Explain the Anatomy of Ear with neat diagram.	07	
Q.5	(a) (b)	What is Anemia; explain the types of Anemia in detail.	07	
	(0)	That is I monna, explain the types of I monna in detail.	U /	
