Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION - SUMMER • 2014

Su	bject	t Code: 140302 Date: 25-06-2014	
Su	bject	t Name: Physiological Measurement Techniques	
	-	10:30 am - 01:00 pm Total Marks: 70	
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	1.	1 1	
	2. 3.	ı v	
Q.1	(a) (b)	Draw neat Structure of Cell. And explain different functions of Cell Organelles. Explain Conduction system of the heart.	07 07
Q.2	(a) (b)	Classify External Interference Signals and Explain Ground Loop Interference. Draw and Explain Anatomy of EYE.	07 07
		OR	
	(b)	With neat Diagram Explain anatomy of Heart.	07
Q.3	(a)	Explain Mechanism of Respiration.	07
	(b)	Short Note: Capacitive Interference	07
		OR	
Q.3	(a)	Short Note: Pulmonary Function Testing	07
	(b)	Short Note: Inductive Interference	07
Q.4	(a)	Explain use of Piezo Crystal as Pressure, capacitive and Displacement Transducers.	07
	(b)	Draw and explain Structure of Neuron.	07
		OR	
Q.4	(a)	How Bio potential Signals are generated and Recorded with the help of electrodes.	07
	(b)	Explain Reflex Arc.	07
Q.5	(a)	Explain Transport phenomena through Cell Membrane.	07
	(b)	Explain Internal Electrodes and Micro Electrodes in Detail.	07
		OR	
Q.5	(a)	Discuss the generation of Action Potential. What is all-or-nothing rule?	07
	(b)	Explain the refractory period of cell. What is Endocytosis? List different pathways of endocytosis and discuss	07
	(b)	Principal components of endocytic pathway	U/
