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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VI(NEW) - EXAMINATION - SUMMER 2019			
Subject Code: 2160301 Date:10/05/2019			
•		me: Diagnostic Instrumentation	
Time: 10:30 AM TO 01:00 PM Total Marks: 70			
Instructions:			
111501 4		ttempt all questions.	
		ake suitable assumptions wherever necessary.	
	3. Fi	gures to the right indicate full marks.	
			MARKS
Q.1	(a)	Draw neat wave form of ECG and Give significance of ECG.	03
	(b)	Short note on EOG.	04
	(c)	Draw and Explain neat Block diagram of EEG Machine.	07
Q.2	(a)	What is Halter Monitoring? Explain Bruce Protocol.	03
-	(b)	Give Frequency distribution of various phases of EEG.	04
	(c)	Enlist and Explain 12 lead configuration of ECG.	07
		OR	
	(c)	Draw & Explain neat block diagram of ECG.	07
Q.3	(a)	Enlist various types of Cardiac Disorders & Explain Myocardial Infraction.	03
	(b)	Write a short note on Phonocardiography.	04
	(c)	Explain Basic Instrumentation of Audiometer.	07
		OR	
Q.3		Enlist Function of ELISA reader & RIA units.	03
	(b)	Describe Gold man Tonometry.	04
	(c)	Write a short note on Wedge Spirometer.	07
Q.4	(a)	1. State beer Lamberts law & Give equation for it.	02
	(L)	2. Give Normal value of blood pH.	01
	(b)	Briefly Explain Air Conduction & Bone Conduction.	04
	(c)	Enlist various types of Blood cell counting techniques& Explain coulter Counter.	07
		OR OR	
Q.4	(a)	Write full form of : HPLC, LASER, ABER.	03
×	(b)	Give Classification & Application of Liquid Chromatography.	04
	(c)	Explain basic instrumentation of Colorimeter.	07
Q.5		What is BP? Differentiate between Hypertension & Hypotension.	03
	(b)	Write a short note on: Sigmoidoscopy & Bronchoscopy.	04
	(c)	Explain Construction & working of calomel Electrode for pH measurement.	07
		OR	
Q.5	(a)	Enlist various ophthalmological Disorders. Write a brief note on Glaucoma.	03
	(b)	Write Short note on: Colonoscopy & Laryngoscopy	04
	(c)	Describe Blood pO2 measurement using Clark Electrode.	07
