Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI- EXAMINATION – SUMMER 2016				
Sul	ject	Code:160301 D	ate:19/05/	2016
Sul	ject	Name:Diagnostic Instrumentation		
	•	9	Total Marl	ks: 70
Inst	ructio	ns:		
	1.	Attempt all questions.		
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1	(a)	Explain the principle and working of pure tone audiometer.	07	
	(b)	Write a short note on Electrocardiograph Machine.	07	
Q.2	(a)	Explain the application of EEG for diagnosis of nervous system disorders	07	
	(b)	Discuss the x-ray image intensifier used for fluoroscopic system. OR	07	
	(b)	Explain various modes of display for Ultrasound Imaging.	07	
Q.3	(a)	Write a note on ECG artefacts.	07	
	(b)	Differentiate between Stationary & Rotating Anode tube for X-R OR	ay. 07	
Q.3	(a)	Explain the various modes of transmission in Ultrasound	07	
	(b)	List applications of Biotelemetry and explain any one in detail	07	
Q.4	(a)	Enlist different methods for Foetal Heart Rate measurement. Expany one of them in detail.	olain 07	
	(b)	Explain ultrasonic blood flow meter.	07	
		OR		
Q.4	(a)	What is endoscopy? Explain the endoscopic system in detail.	07	
	(b)	Explain Audiometer system Bekesy.	07	
Q.5	(a)	Explain construction and working principle of Electromagnetic Bloc meter.	od flow 07	
	(b)	Explain the application of Spirometer for diagnosis of respiratory disorders	07	
		OR		
Q.5	(a)	Write a brief note on Bronchoscopy & Laproscopy.	07	
	(b)	Draw & explain the block diagram of X-ray machine	07	