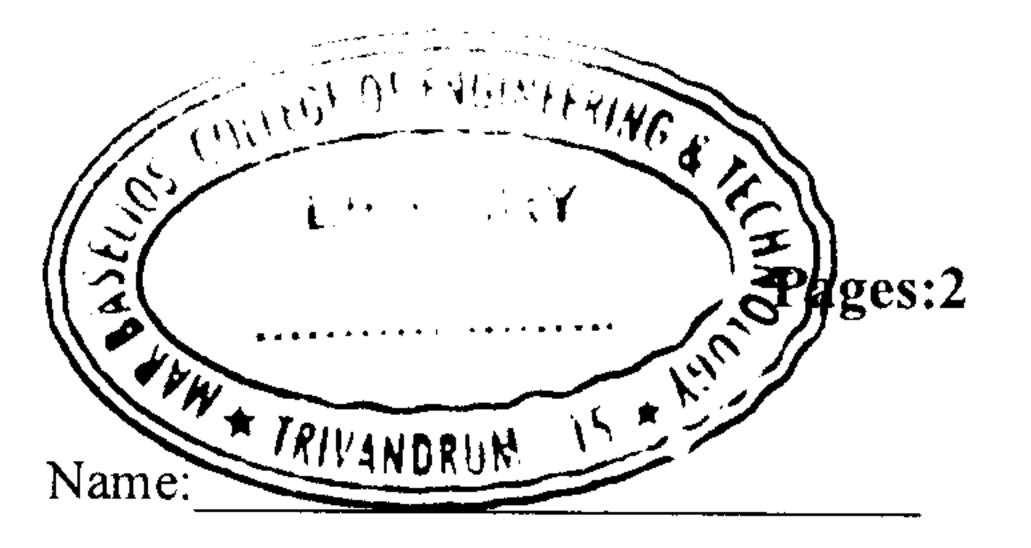
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SIXTH SEMESTER B.TECH DEGREE EXAMINATION(S), DECEMBER 2019

Course Code: EE372

Course Name: BIOMEDICAL INSTRUMENTATION

		Course Name: BIOMEDICAL INSTRUMENTATION	
Max	. Mark	•	Ouration: 3 Hours
		PART A Answer all questions, each carries5 marks.	Marks
1		What are bio signals? Give specific examples	(5marks)
2		Explain electro conduction pathway of heart.	(5marks)
3		What is Korotkoff sound? What are its biomedical applications?	(5marks)
4		Write brief notes on respiratory parameters.	(5marks)
5		Discuss the principle of Lithotripsy.	(5marks)
6		Write brief notes on ultrasound scanning.	(5marks)
7		What is micro shock? How it is affected to human body?	(5marks)
8		Discuss telemedicine. What are its biomedical applications	(5marks)
		PART B	
		Answer any two full questions, each carries 10 marks.	
9	a)	Discuss the problems encountered in biomedical measurements.	(5marks)
	b)	Explain the developments of action potential with respect to human cells w necessary figures	ith (5marks)
10	a)	With the help of necessary figure explain the working of cardiovascular system of human body.	em (5marks)
	b)	What is cardiac vector? Explain ECG leads with necessary figures.	(5marks)
11	a)	Draw and explain the block diagram of a biomedical instrumentation system.	(5marks)
	b)	What are microelectrodes? Explain the electrical equivalent circuit of microelectrode skin interface,	a (5marks).
		PART C Answer any two full questions, each carries 10 marks.	
12	a)	Write the method of measuring Blood Pressure by cardiac catheterisation.	(5 m a -1 -)
1 4	b)		(5marks)
1 2	,	Explain the working principle of phonocardiograph with sound waves.	(5marks)
13	a)	What is plethysmography? Explain impedance plethysmograph with necessa diagram	ry (5marks)

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