a)

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[4M]

Code No: RT32045A (R13) (SET - 1)

III B. Tech II Semester Supplementary Examinations, November - 2018 BIO-MEDICAL ENGINEERING

(Electronics and Communication Engineering & Electronics and Computer Engineering)
Time: 3 hours

Maximum Marks: 70

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

- 2. Answering the question in **Part-A** is compulsory
- 3. Answer any THREE Questions from Part-B

PART -A

What is the use of bioamplifier?

	b)	Write the Nernst equation.	[4M]
	c)	What are the different bio-chemical electrodes?	[3M]
	d)	Draw reference electrode basic configuration.	[4M]
	e)	What is the use of de- fibrillator?	[3M]
	f)	What is macro shock?	[4M]
		PART -B	
2	a)	What is a man-instrument system? Explain.	[8M]
	b)	Discuss the Bioelectric potentials of EMG	[8M]
3	a)	Explain the basic transducer principle with an example	[8M]
	b)	Give the comparison of internal and external bio-potential electrodes.	[8M]
4	a)	Explain various tests and instrumentation for breathing.	[8M]
	b)	Explain the measurement process of lung function.	[8M]
5	a)	What are the elements of intensive-care unit? Explain.	[8M]
	b)	Discuss about the clinical laboratory instruments	[8M]
6	a)	What is the use of telemetry for ECG measurements? Explain.	[8M]
	b)	Write notes on CAT.	[8M]
7	a)	What is the need for isolated power distribution system? Explain.	[8M]
	b)	What are the different types of recorders? Explain.	[8M]
