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	Question Pap	or Codo, 90522
		er Code: 30333
B.E.,	/B.Tech. DEGREE EXAMINAT	IONS, NOVEMBER/DECEMBER 2022.
	Eighth	Semester
	Electronics and Instr	umentation Engineering
	EI 8073 — BIOMEDIC	AL INSTRUMENTATION
(Commo	on to Electrical and Electronics Engi	Engineering / Instrumentation and Control neering)
	(Regula	tions 2017)
Time: Th	aree hours	Maximum: 100 marks
	Answer Al	LL questions.
3. Defi	ne resting and action potential. ne cardiac output. the indirect BP measurement 7	
	w the typical ECG waveform an	
		rodes used in measurement of biopotential.
7. Wha	t is radiographic technique?	
8. Wha	t is mean by endoscopy?	
	ne Diathermy.	
10. Wha	t is the purpose of ventilators?	
11 ()		(13 = 65 marks)
11. (a)		he Respiratory systems in detail. (13) Or
(b)	Explain in detail about instrumentation system.	the block diagram of a biomedical (13)

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12. (a)	Explain different types of spirometers for pulmonary measurement and its operation.	function
	(i) Basic spirometry	(5)
	(ii) Wedge spirometry	(4)
	(iii) Ultrasonic spirometry	(4)
	Or	
(b)	Explain in detail about measurement of	
	(i) Blood pH	(4)
	(ii) pCO ₂	(4)
	(iii) Systolic and Diastolic	(5)
13. (a)	Discuss in detail about the ECG lead system with neat diagram	. (13)
	Or	
(b)	Draw the block diagram of a recording setup of EEG and en	xplain the
14. (a)	different parts. With a neat block diagram explain in detail about nuclear resonance imaging	On
	Or	
(b)	What is the basic principle of computer tomography? Expedetail.	lain it in (13)
15. (a)	With a neat diagram explain the working principle of her machine.	modialysis (13)
	Or	
(b)	Explain in detail about defibrillators	
	(i) DC defibrillators	(5)
	(ii) Automatic external defibrillators	(4)
	(iii) Implantable defibrillators	(4)
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