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	Reg. No. :
	Question Paper Code: 50470
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.
	Fifth Semester
	Electronics and Communication Engineering
	EC 8073 – MEDICAL ELECTRONICS
	(Common to: Electronics and Telecommunication Engineering)
	(Regulations 2017)
Tim	e: Three hours Maximum: 100 marks
	Answer ALL questions.
1. 2. 3.	Draw a cell bio potential wave showing the polarization and depolarization states with time and amplitude Calculate the cardiac stroke volume and blood flow rate to the heart for a pulse rate of 75 per minute with 5 liters of blood circulation. Is blood acidic or base? Justify your answer by mentoring the standard pH
4.	value of blood
5.	Compare the ventilator with the respirator.
6.7.	Brief about the source of brain waves and list the types with the frequency. Interpret the various ways of regulating the intensity of current supplied to the patient from a short-wave diathermy machine.
8.	List the various elements in bio-telemetry.
9.	Recall the working principle of the radio pill.
10.	Justify the statement, "Telemedicine for remote diagnosis and treatment in hospital."

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