DR. B ABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE – RAIGAD – 402 103

Winter Semester Examination – December – 2019

nstructions to the Students 1. Each question carries 12 marks. 2. Attempt any five questions of the following.	=======
 Illustrate your answers with neat sketches, diagram etc., wherev If some part or parameter is noticed to be missing, you may and should mention it clearly. 	er necessary. appropriately assume
Q.1 a) Explain the classification of Medical Equipments	(Marks) (6)
b) Describe operation of X-ray Machine with Block Diagram	(6)
Q.2 a) What is mean by resting and action potential? Explain action pote waveform	ntial (6)
b) Explain different Electrodes used for ECG Measurement	(6)
Q.3 a) Explain Performance characteristics of Transducers used for be application	iomedical (6)
b).List two diagnostic, two therapeutic and two clinical laboratory e applications	quipments with their
Q.4 a) Explain with the help of block diagram major building blocks Machine	of EEG (6)

	b) Explain the operat	tion of Pacemaker and why i	it is needed?	(6)
.5	a) What is the need o	f a Cardiac defibrillator? Ex	plain with the help	of block diagram
				(6)
	b) Describe the different	ent technique used to calcula	te Heart rate	(6)
.6	a)What are special dev	sign consideration for medic	al equipments fron	n safety point of (6)
b	o) Distinguish between electric current on the	Gross shock and Micro curr human body	ent shock, Explain	the effect of (6)