

Time: 3 Hours]

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[Max. Marks : 100

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VI Semester Diploma Examination, Nov./Dec.-2018

MEDICAL ELECTRONICS

Note	Note: (i) Answer any six questions from Part – A. (5 × 6 = 30 Marks) (ii) Answer any seven full questions from Part – B. (10 × 7 = 70 Marks)					
1.	Explain	PART – A resting potential and action potential.	Diploma - [All Branches Beta Console Education 3-5			
2.	What is	ECG? Explain briefly typical ECG waveform	. 5 Diploma Question Papers [2015			
3.	List the	effects of artifacts in ECG measurement	19] Beta Console Education 5			
4.	What is	pacemaker? Write the difference between into	ernal and external pacemaker. 5			
5.	What is	meant by diathermy? Sketch the schematic of	a microwave diathermy setup. 5			
6.	Define	M.C.V., M.C.H., M.C.H.C., M.P.V. and RDW.	. 5			
7.	Define	pH. Explain the working of digital pH meter.	5			
8.	List the	advantages, disadvantages and applications of	CCT Imaging. 5			
9.	Explain	micro shock and macro shock.	5			

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		PART – B	
10.	(a)	Explain the different types of electrodes used in EMG recordi	ng. 5
	(b)	List the factors on which selection of physiological transduce	r depends. 5
11.	Expl	lain 10-20 electrode system to record the EEG.	10
12.	Expl	lain how EMG recordings are made. List the uses of EMG.	10
13.	Desc	cribe the working of haemodialyser machine with a neat diagra	CONSOLEI 10
14.	(a)		ploma - [All Branches]
	(b)	Explain the working of Digital hearing aid with diagram.	5
15.	Exp	lain the working of Spectro photometer.	10
16.	Des	cribe ultrasonic Doppler shift method of measuring H.R. [9]	oma Question Papers [2015- 10
17.	Exp	lain the working of N.M.R. Imaging system.	10
18.	Exp	lain the working of CT Imaging and list its advantages.	10

Define E-waste. Explain any two methods disposing E-waste.

Explain the physiological effects of electric current.

5

5

19.

(a)

(b)