

1762**Code : 15EC63A***Register
Number*

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VI Semester Diploma Examination, April/May-2018**MEDICAL ELECTRONICS****Time : 3 Hours]****[Max. Marks : 100**

- Note :** (i) Answer any **six** questions from Part – A. ($5 \times 6 = 30$ marks)
(ii) Answer any **seven** full questions from Part – B. ($10 \times 7 = 70$ marks)

BETA CONSOLE!**PART – A**

1. Explain propagation of action potential with neat diagram.



2. List the factors used in the selection of physiological transducers.

3. Describe basic recording s/m with neat block diagram.



4. List the differences b/w internal and external pacemakers.

5. What is Diathermy ? Mention its applications.

6. Define MCV, MCH, MCHC, MPV, RDW.

7. Illustrate blood cell counting using dark field method.

8. List the properties of X-Rays.

9. Explain the components of Bio-telemetry s/m.

Diploma - [All Branches]

Beta Console Education

3+

5

Diploma Question Papers [2015-19]

Beta Console Education

3+

5**5****5****5****5****5****5**

PART – B

10. (a) What is electrode ? Mention the types of electrodes. 5
(b) Explain the ECG w/f. 5
11. Illustrate the 10-12 electrode placement for EEG with neat diagram. 10
12. Mention the application of ECG, EEG, EMG & ERG. (any five applications each) 10
13. Explain the working of microprocessor passed defibrillation with block diagram. 10
14. What is Laser ? List different types of lasers. Mention its application in medicine. 10
15. Explain the working of spectrophotometer with diagram. 10
16. (a) Explain the indirect method of BP measurement. 5
(b) Write a note on FHR measurement. 5
17. (a) List the properties of X-rays. 5
(b) Write the advantages and disadvantages of CT imaging. 5
18. Explain the working of MRI with block diagram. 10
19. (a) Explain micro and macro shock. 5
(b) Write a note on E-waste. 5