

- Q.31 Differentiate between Preventive & Corrective Maintenance?
- Q.32 Explain Emergency power system in hospitals?
- Q.33 Explain Bed side monitor in details.
- Q.34 What is fibrillation. Explain Defibrillator with circuit diagram.
- Q.35 Write a note on Incubator.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain X-Ray machine in details.
- Q.37 Explain ECG and its Measurements. Explain ECG machine with Block Diagram?
- Q.38 Explain EEG Machine with Diagram?

No. of Printed Pages : 4

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Roll No.

6th Sem / Branch : Medical Electronics

**Sub. : Installation, Maintenance of Medical Equipment/
Install., Maint. & Servicing of Medical Equipments (IMME)**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The capacity of a battery is measured in term of
- Current Rating
 - Voltage Rating
 - Ampere hour rating
 - None of the above
- Q.2 The downstairs chambers of heart is called
- Aorta
 - Atria
 - Valves
 - Ventricles
- Q.3 Which one of the following act as protecting element against overload
- Fuse
 - Switch
 - Resistor
 - Relay
- Q.4 EEG Electrodes are place on
- Forehead
 - Cheek
 - Ears
 - Scalp
- Q.5 A transformer will work only on
- AC
 - DC
 - Both
 - None

- Q.6 What does a capacitor store
 a) Voltage b) Charge
 c) Current d) Power
- Q.7 Heart rate of a healthy person in resting state should be-
 a) 90 Beats/minute
 b) 72 beats/minute
 c) 120 beats/minute
 d) 45 beats/minute
- Q.8 How many electrodes placed in 10/20 electrode placement system
 a) 19 b) 20
 c) 21 d) 10
- Q.9 Thermocouple is used to measure
 a) Temperature b) Voltage
 c) Current d) None of above
- Q.10 The most common used semiconductor material
 a) Silicon b) Germanium
 c) Mixture of both d) None of the above

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Expand CVT.
 Q.12 Earthing.
 Q.13 Fuse.
 Q.14 Expand SMPS.

- Q.15 What is Fibrillation.
 Q.16 Expand ESU.
 Q.17 Notch Filter
 Q.18 What is called Natural Pacemaker of body?
 Q.19 What do you mean by Collimator.
 Q.20 What is Stabilizer.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Discuss any two biomedical signals and their generation.
 Q.22 Write a short note on perspective of Biomedical Engineering.
 Q.23 Explain the role of Biomedical Engineer is servicing & maintenance of hospital equipments?
 Q.24 Explain Auto-Analyser with diagram?
 Q.25 What is ESU. Explain it?
 Q.26 Explain SMPS in details?
 Q.27 Discuss Physiological effects due to 50hz current passage?
 Q.28 Explain Micro current & Macro current Hazards?
 Q.29 What is Ups Classify it?
 Q.30 Explain various types of electrical hazards in hospitals?