

- 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?

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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
 a) Current Rating
 b) Voltage Rating
 c) Ampere hour rating
 d) None of the above
- Q.2 The downstairs chambers of heart is called
 a) Aorta b) Atria
 c) Valves d) Ventricles
- Q.3 Which one of the following act as protecting element against overload
 a) Fuse b) Switch
 c) Resistor d) Relay
- Q.4 EEG Electrodes are place on
 a) Forehead b) Cheek
 c) Ears d) Scalp
- Q.5 A transformer will work only on
 a) AC b) DC
 c) Both d) 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 Beast/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 CTV.
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 in servicing & maintenance of hospital equipments?
Q.24 Explain Auto-Analyer 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?