

- Q.32 Explain Electrical Accidents in hospitals.
- Q.33 Explain Precaution required for installation of Medical Equipment.
- Q.34 Explain Ultrasound Machine.
- Q.35 Explain troubleshooting of ECG machine.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What are the uses of stabilizers and Generators in hospitals?
- Q.37 Explain AMC and PMS.
- Q.38 What is fuse? Explain its types in details.

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5th Sem / Branch : Medical Electronics
Subject:- (MEMS) Medical Equipments
Maintenance System

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 EMG is used for
a) Muscular dystrophy b) Sleep disorders
c) Brain Tumors d) None of the above
- Q.2 In unregulated power supply, if input AC voltage increases, then output voltage
a) Increases b) Decreases
c) Remains same d) None of the above
- Q.3 Any electrical signal present in a circuit other than the desired signal is known as
a) Noise b) Interference
c) Distortion d) All of these
- Q.4 A.C. stands for _____
a) Absolute current b) Advance current
c) Alternating current d) None of the above

Q.5 LED converts electrical energy into _____ energy.

- a) Heat b) Light
- c) Chemical d) Sound

Q.6 ECG is a graphic record of

- a) Heat activity b) Brain activity
- c) Renal function d) Lung function

Q.7 Efficiency of a half wave rectifier is

- a) 40% b) 50%
- c) 70% d) 100%

Q.8 Before placing the electrodes, skin should be

- a) Wet b) Oily
- c) Hairy d) Dry

Q.9 How many wavelengths are used by pulse oximeter

- a) 1 b) 2
- c) 3 d) 4

Q.10 Heart rate of a Healthy person should be

- a) 90 bpm b) 60bpm
- c) 72bpm d) 82bpm

SECTION-B

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

Q.11 What is OT?

Q.12 What is MCB?

Q.13 What is EEG?

Q.14 What is CVT?

Q.15 What is MCCB?

Q.16 What is US?

Q.17 What is Fuse?

Q.18 Define PMS.

Q.19 What is Earthing?

Q.20 What is SMPS?

SECTION-C

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

Q.21 What is Star Delta connection?

Q.22 What is Switch fuse unit?

Q.23 Explain X-ray machine.

Q.24 What is Pulse oximeter?

Q.25 Write short note on Micro shock Hazards.

Q.26 Write short note on Earthing.

Q.27 Write short note on Stabilizer.

Q.28 Write short note on CVT.

Q.29 What is Ground system inspection?

Q.30 Explain types of Connectors.

Q.31 Explain 3 phase supply.