

- Q.28 Write short note on CVT.
 Q.29 What is Ground system inspection?
 Q.30 Explain types of Connectors.
 Q.31 What is Star Delta connection?
 Q.32 What is Switch fuse unit?
 Q.33 Explain X-ray machine?
 Q.34 What is Pulse Oximeter.
 Q.35 Write short note on Micro shock Hazards.

SECTION-D

Note : Long Answer type question. Attempt any two questions. (2x10=20)

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

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5th Sem / Medical Electronics Subject : MEMS

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 CRO Stands for
 a) Cathode ray oscilloscope
 b) Catode ray oscillator
 c) Cathode Resistor oscillator
 d) None of the above
- Q.2 Which one of the following element serves as a protection against overload
 a) Fuse
 b) Switch
 c) Relay
 d) Resistor
- Q.3 Write is the full form of UPS?
 a) Universal power supply
 b) Uninterruptible power supply
 c) Unless power supply
 d) None of the above
- Q.4 CT Stands for
 a) Controlled tomography

- b) Computed tomography
 - c) Comparison tomography
 - d) converted tomography
- Q5. Normal SPO₂ range is
- a) 70-100% b) 95-100%
 - c) 60-80% d) 50-100%
- Q.6 The voltage of each of the circuit in power supply can be measured using a
- a) Transformer b) Rectifier
 - c) Ammeter d) Multimeter
- Q.7 What is the signal amplitude of ECG
- a) 2.5mv b) 0.5-1 mv
 - c) 0-10mv d) 0-20 mv
- Q.8 In ECG measurement, the positive terminal limb in AVR.
- a) Right Arm b) Right Leg
 - c) Left Arm d) Left Leg
- Q.9 The normal average pulse of an adult male is
- a) 60-100 bpm b) 80-100bpm
 - c) 100-120bpm d) 60-80bpm
- Q.10 The following is not a classification of maintenance
- a) Corrective maintenance
 - b) Timely maintenance
 - c) Scheduled maintenance
 - d) Preventive maintenance

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SECTION-B

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

- Q.11 What is US?
- Q.12 What is Fuse?
- Q.13 Define PMS?
- Q.14 What is Earthing?
- Q.15 What is SMPS?
- Q.16 What is OT?
- Q.17 What is MCB?
- Q.18 What is EEG?
- Q.19 What is CVT?
- Q.20 What is MCCB?

SECTION-C

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

- Q.21 Explain 3 phase supply.
- Q.22 Explain Electrical Accidents in hospitals.
- Q.23 Explain Precaution required for installation of Medical Equipment.
- Q.24 Explain Ultrasound Machine.
- Q.25 Explain troubleshooting of ECG machine.
- Q.26 Write short note on Earthing?
- Q.27 Write short note on Stabilizer?

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