

- 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. $(2 \times 10 = 20)$

- 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?

No. of Printed Pages : 4
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183254

5th Sem / Medical Electronics

Subject : MEMS

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note : Multiple choice questions. All questions are compulsory. $(10 \times 1 = 10)$

- 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%
- Q6. The voltage of each of the circuit in power supply can be measured using a
a) Transformer b) Rectifier
c) Ammeter d) Multimeter
- Q7. What is the signal amplitude of ECG
a) 2.5mv b) 0.5-1 mv
c) 0-10mv d) 0-20 mv
- Q8. In ECG measurement, the positive terminal limb in AVR.
a) Right Arm b) Right Leg
c) Left Arm d) Left Leg
- Q9. The normal average pulse of an adult male is
a) 60-100 bpm b) 80-100 bpm
c) 100-120 bpm d) 60-80 bpm
- Q10. The following is not a classification of maintenance
a) Corrective maintenance
b) Timely maintenance
c) Scheduled maintenance
d) Preventive maintenance

(2)

183254

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?

(3)

183254