

Q.21 Explain Multi parameter monitorwith diagram .

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Q.22 Explain biological effect due to UV Radiation?

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain Anesthesia work station & its maintenance with block diagram.

Q.24 Explain Principle, working & maintenance o ECG Machine with diagram.

Q.25 Explain Principle, working & maintenance of Pulse oximeter with diagram.

5th Sem. / Medical Electronics

Subject : Troubleshooting & Maintenance of Biomedical equipment

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 The downstairs chambers of heart called

- a) Atria
- b) Ventricles
- c) Heart Valve
- d) None of the above

Q.2 What does a capacitor store

- a) Voltage
- b) Charge
- c) Current
- d) Power

Q.3 Which limb used as ground electrode in ECG measurement

- a) Right arm
- b) Left arm
- c) Right leg
- d) Left leg

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- Q.4 Zener diode are generally made up of
a) Germanium b) Silicon
c) Carbon d) None

- Q.5 LED converts electrical energy into
a) Heat b) Light
c) Chemical d) Sound

- Q.6 CT Stands for
a) Controlled tomography
b) Comparison tomography
c) Converted tomography
d) Computerized tomography

- Q.10 Earthing
Q.11 Radiation safety
Q.12 Expand MCB

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 List various electronic connectors & their classification.
Q.14 Explain Grounding system inspection.
Q.15 Discuss precautionary measurement while installing any medical equipment.
Q.16 Explain SMPS with diagram
Q.17 Write a note on construction & application of coaxial cables
Q.18 Explain Medical gas cylinders & their classifications.
Q.19 Explain construction & working of Suction Pump.
Q.20 Write a note on Radiation safety instrumentation.

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Comprehensive maintenance
Q.8 Anesthesia
Q.9 Expand UPS

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