

SECTION-D

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

Q.23 Explain single channel telemetry system with block diagram.

Q.24 What is multiplexing & its types in details.

Q.25 Explain Satellite communication link with block diagram description.

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4th Sem / Medical Electronics

Subject : Telemetry and Telemedicine

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 _____ Material is used to improve electric contact of electrode and skin

- a) Silver Tungsten
- b) Copper Tungsten
- c) Silver Graphite
- d) Electrode Jelly

Q.2 _____ is typical frequency range EEG machine.

- a) 70-140 Hz
- b) 0.1-70 Hz
- c) 0.05-0.1 Hz
- d) 0.025-0.05 Hz

Q.3 _____ is the most common convenient light source.

- a) Neon-xenon arc
- b) Xenon-mercury arc
- c) Tungsten lamp
- d) Hydrogen discharge lamp

Q.4 _____ is used for electrical activity of muscles.

- a) ECG
- b) EEG
- c) EMG
- d) EOG

Q.5 The typical value of calibration signal is-

- a) 10 uv/cm
- b) 70 uv/cm
- c) 50 uv/cm
- d) 30 uv/cm

Q.6 Which of the following parameter is measured by strain gauge.

- a) Pressure
- b) Temperature
- c) Height
- d) Displacement

SECTION-B

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

Q.7 Multiplexing

Q.8 Telemedicine

Q.9 Expand ISDN

Q.10 Expand POTS

Q.11 Expand FDM

Q.12 Apogee

SECTION-C

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

Q.13 Explain Telemetry transmitter system with diagram description

Q.14 Explain temperature Telemetry system.

Q.15 Write a note on telemetry system in operating room.

Q.16 Explain transmission of system Images.

Q.17 Explain Telemedicine with block diagram description

Q.18 Write a note on ISDN.

Q.19 What is Orbit. Explain it

Q.20 Explain the difference between active and passive satellites.

Q.21 Write a note on Internet resources

Q.22 Write a note on obstetrical telemetry system.