

- Q.25 Discuss the importance of telemetry in operating room.
- Q.26 Discuss advantages & disadvantages of optical communication system.
- Q.27 Explain Time division Multiplexing.
- Q.28 Write a short note on Delta Modulation.
- Q.29 Explain principle of light propagation through optical fiber.
- Q.30 Explain different types of filters used in communication system.
- Q.31 Explain classification of transmitters on basis of modulation.
- Q.32 Explain Armstrong transmitters.
- Q.33 Write a note on image rejection ratio.
- Q.34 Discuss Temperature Telemetry system.
- Q.35 Write a note on difference between communication & broadcast receivers.

SECTION-D

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

- Q.36 Explain Satellite communications system in details.
- Q.37 Explain Single channel ECG Telemetry system with diagram?
- Q.38 Explain Super Heterodyne Receiver with Diagram?

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6th Sem / Branch : Medical Electronics
Sub. : Communication System & Telemetry / Modern Communication and Telemetry

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Which of the following signals cannot be transmitted using telemetry?
 a) Audio b) Visuals
 c) Pictures d) All of the above
- Q.2 Reference electrode in EEG measurement is placed on
 a) Forehead b) Nasal
 c) Cervical d) Facial
- Q.3 _____ is used for measurement of electrical activity of Heart.
 a) ECG b) EEG
 c) EMG d) None of the above
- Q.4 Source of Bioelectric signal is _____ in nature.
 a) Electronic b) Electric
 c) Mechanic d) Ionic

- Q.5** EMG is study about
 a) Cardiovascular function
 b) Neuromuscular Function
 c) Immune Function
 d) Nervous Functions
- Q.6** Which of the following is used in Time division multiplexing
 a) Digital Circuit
 b) Analog Circuit
 c) Modulation Circuit
 d) Multiplexer Circuit
- Q.7** Voltage signal generated by microphone is
 a) Analog in nature
 b) Digital in nature
 c) Hybrid in nature
 d) None of the above
- Q.8** Frequency of modulated wave varies with _____ in FM
 a) Wavelength b) Time
 c) Amplitude d) Energy
- Q.9** PAM Stands for
 a) Pulse analogue modulation
 b) Phase analogue modulation
 c) Pulse Amplitude Modulation
 d) Phase Amplitude Modulation
- Q.10** Which of the following communication transmission media is free space
 a) Line b) Radio
 c) Transmitter d) None of the above

SECTION-B

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

- Q.11 Expand FDM.
 Q.12 Transmitter.
 Q.13 Telemetry.
 Q.14 Expand PSK.
 Q.15 What is Bandwidth.
 Q.16 Quantization.
 Q.17 Refractive index.
 Q.18 Numerical aperture.
 Q.19 What do you mean by Telemedicine.
 Q.20 Multiplexing.

SECTION-C

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

- Q.21 Explain basic communication system with block diagram?
 Q.22 Explain Obstetrical Telemetry system.
 Q.23 Explain Amplitude Modulation in details.
 Q.24 Explain Implantable Telemetry system.