

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 not a piezo-electric material.

- a) Quartz
- b) Rochelle salt
- c) Barium Titanate
- d) Aluminum

Q.2 _____ is paper recording speed for routine work

- a) 10 mm/sec
- b) 15 mm/sec
- c) 20 mm/sec
- d) 25 mm/sec

Q.3 _____ material used in limb surface electrode.

- a) German silver
- b) Platinum
- c) Gold
- d) Copper

Q.4 Preamplifier is used for -

- a) Amplification
- b) Stabilizing effect
- c) Modifying effect
- d) Reducing effect

Q.5 _____ is a wireless ECG acquisition system

- a) Limb electrodes
- b) Smart Pad
- c) Paste-less Electrodes
- d) Pre-gelled disposable electrodes

Q.6 Which of the following component converts biochemical events into measurable signals.

- a) Amplifier b) Op-Amp
- c) Rectifier d) Transducer

SECTION-B

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

Q.7 Telemetry

Q.8 Expand DDS

Q.9 Expand TDM

Q.10 Perigee

Q.11 Expand ECG

Q.12 Internet resources

SECTION-C

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

Q.13 Explain Telemetry receiver system with diagram.

Q.14 Write a note on telemetry system in ECG and respiration

Q.15 Write a note on satellite communication link

Q.16 Explain telemedicine and its applications

Q.17 Explain transmission of video images.

Q.18 What do you mean by FDM. Explain it.

Q.19 Write a note on digital communication services.

Q.20 Write a note on telemetry system in sports.

Q.21 Explain transmission of Digital audio.

Q.22 Explain ISDN in details.

SECTION-D

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

Q.23 Explain Geo-stationary satellite with diagram.

Q.24 Explain Time Division Multiplexing.

Q.25 Explain single channel telemetry system with diagram.

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