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221561

Roll No.

6th Sem.

Branch : Instrumentation & Control

Sub. : Industrial Communication Technologies

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

- Q.1 _____ is the practice of providing health care services remotely.
- a) Telemetry b) Telemedicine
c) Modulation d) Demodulation
- Q.2 Which of the following is the basic elements of general telemetry system?
- a) Time Multiplex b) Transmitter
c) Receiver d) All the above
- Q.3 APDPT diaphragm is a
- a) Pneumatic transmitter b) Hydraulic transmitter
c) Electric transmitter d) Inductive transmitter
- Q.4 _____ is a family of wired computer network technology commonly use in LAN
- a) Hart b) Wan
c) Ethernet d) None of the above

- Q.5 A dead zero in 4-20 mA current transmitter 18a situation where the loop current becomes
- a) 4 ma b) 20 ma
- c) 16 ma d) 0 ma
- Q.6 PAM refers to
- a) Pulse analog modulation
- b) Pulse armature modulation
- c) Pulse amplitude modulation
- d) Both (b) & (c)

SECTION-B

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

- Q.7 Define telemetry.
- Q.8 Explain PCM.
- Q.9 Give any one example of Hydraulic transmitter.
- Q.10 Expand TDM.
- Q.11 Define GPIB.
- Q.12 In fiber - optic communication, _____ is used for transmitting information from one place to another.

SECTION-C

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

- Q.13 Write any four applications of telemetry.

- Q.14 What is land line telemetry? Write the types of land line telemetry.
- Q.15 Define modulation and demodulation with example.
- Q.16 Explain the working of pulse code modulation with diagram.
- Q.17 Draw and explain the PDPT bellow type pneumatic transmitter.
- Q.18 What are the advantages of digital data transmission over analog transmission?
- Q.19 Explain HART communication protocol.
- Q.20 What is Ethernet? Write any two applications of it.
- Q.21 Explain why multiplier is needed in data transmission?
- Q.22 Define telemedicine. Write two application of it.

SECTION-D

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

- Q.23 Draw and explain block diagram of general telemetry system. Explain about the transmitter and receiver used in telemetry system.
- Q.24 Discuss about the following:
- a) PAM b) PCM
- c) TDM d) FDM
- Q.25 What is inter bus and profibus? Explain the fiber optic communication. Write any four applications of it.