

- Q.20 Write a short note on GPIB.
- Q.21 What would you understand by the term Instrumentation Buses. Explain.
- Q.22 Write various advantages of Digital data transmission over analog data transmission.

SECTION-D

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

- Q.23 Write the short note on following :-
- a) PAM
 - b) PCM
 - c) FDM
 - d) TDM
- Q.24 What is fiber optic communication. Explain fiber optic communication features, advantages, disadvantage & application.
- Q.25 What is Landline telemetry? Explain the landline telemetry in detail.

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6th Sem / Instrumentation & Control
Subject : Industrial Communication Technologies

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 Which of the following is a type of transmitter.
- a) Pneumatic transmitter
 - b) Hydraulic transmitter
 - c) Electric transmitter
 - d) All of the above
- Q.2 What is telemetry?
- a) A method of measuring physical parameters remotely
 - b) A method of controlling physical parameters remotely
 - c) A method of transmitting data wirelessly
 - d) All of the above

- Q.3 What is GPIB?
- A network protocol for data transmission
 - A type of Ethernet cable.
 - A parallel Interface bus for connecting Instruments
 - None of these
- Q.4 What is Ethernet?
- A type of LAN technology
 - A type of WAN technology
 - A type of network protocol
 - None of these
- Q.5 What is analog transmission?
- A method of transmitting data using Discrete signals
 - A method of transmitting data using continuous signal
 - A method of storing data locally
 - Processing data
- Q.6 What is the purpose of telemetry in RF systems?
- To transmit data over long distances
 - To receive data from a remote location
 - To measure Physical parameters remotely
 - All of the above

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SECTION-B

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

- Q.7 Write the unit of current.
- Q.8 Expand FM
- Q.9 What is Modulation?
- Q.10 Write the full form of TDM
- Q.11 LAN stands for _____
- Q.12 Expand PAM

SECTION-C

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

- Q.13 Define telemedicine. Write two application of it.
- Q.14 What is need of Modulation & demodulation in signal transmission?
- Q.15 Write a short note on Ethernet.
- Q.16 Draw & explain the electric transmitter.
- Q.17 Give the general idea about general telemetry system.
- Q.18 Differentiate b/w Radio channel & wire line channel.
- Q.19 What is the Role of live & dead Zero in data transmission and channels?

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