

- Q.24 Discuss F.D.M Technique.
- Q.25 Describe Phase shift keying.
- Q.26 Write a short note on GPIB.
- Q.27 Describe applications of telemetry system
- Q.28 Discuss Ratio telemetry system with diagram.
- Q.29 Describe any one Pneumatic transmitter
- Q.30 Write a short note on transmission channels.
- Q.31 What is data communications.
- Q.32 Write a short note on interbus.
- Q.33 Differentiate between A.M. and F.M.
- Q.34 Discuss Profinet.
- Q.35 Explain Radio link channels with its advantages.

#### **SECTION-D**

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

- Q.36 Draw and explain block diagram of PCM in detail.
- Q.37 Draw and Explain Hydraulic Transmitter.
- Q.38 Explain Fibre optic communication with suitable diagram.

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**4th Sem / IC**  
**Subject:- Industrial Communication / Principles**  
**of Telemetry**

Time : 3Hrs.                            M.M. : 100

#### **SECTION-A**

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

- Q.1 Pneumatic system deals with \_\_\_\_\_.  
 a) Water                                b) Oil  
 c) Fluid                                d) Air
- Q.2 Voltage telemetering system is a \_\_\_\_\_.  
 a) R.F. Telemetering                b) Land line telemetry  
 c) Both a & b                        d) None of these
- Q.3 \_\_\_\_\_ wave forms are called as line codes.  
 a) PAM                                b) PCM  
 c) PPM                                d) PWM
- Q.4 PDPT diagram type transmitter is a \_\_\_\_\_.  
 a) Hydraulic Transmitter  
 b) Electric Transmitter  
 c) Pneumatic Transmitter  
 d) None of these

Q.5 F.M. system operate at \_\_\_\_\_.

- a) VHF
- b) MF
- c) VHF and UHF
- d) None of these

Q.6 In TDM \_\_\_\_\_ technique is used.

- a) Modulation
- b) Time Sharing
- c) Frequency Sharing
- d) None of these

Q.7 GPIB operates in which I/o mode.

- a) Parallel
- b) Serial
- c) Both a & b
- d) None of these

Q.8 In \_\_\_\_\_ modulation, the amplitude of a carries signal is varied by a modulating signal, whose frequency is much lower than that of the carrier.

- a) F.M.
- b) A.M.
- c) PCM
- d) PAM

Q.9 Network of networks known as \_\_\_\_\_.

- a) Intranet
- b) Internet
- c) WAN
- d) LAN

Q.10 FDM is associated with \_\_\_\_\_ modulation.

- a) AM/FM
- b) FM/FM
- c) PCM/FM
- d) PAM/PCM

## SECTION-B

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

Q.11 Current Telemetry system is a land line system. T/F

Q.12 Expand P.A.M.

Q.13 The most common Hydraulic fluid is \_\_\_\_\_

Q.14 Expand FSK.

Q.15 Protocol is a set of formats & procedures. T/F

Q.16 Terminals or computer systems that are connected together are called \_\_\_\_\_.

Q.17 TDM is used when data is \_\_\_\_\_ changing.

Q.18 Inductive transmitter is an electric transmitter. T/F

Q.19 FM is less expensive than PAM. T/F

Q.20 The frequency of amplitude modulated wave remains constant. T/F

## SECTION-C

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

Q.21 Discuss block diagram of telemetry system.

Q.22 Define land line telemetry and its types.

Q.23 Explain Inductive transmitter with diagram.