

- Q.26 Explain fiber optic communication.
- Q.27 Discuss general view of instrumentation buses.
- Q.28 Draw and explain general telemetry system.
- Q.29 What do you mean by radio channels?
- Q.30 Give the difference between PAM and PCM.
- Q.31 Explain PSK.
- Q.32 Explain GPIB.
- Q.33 Give at least five applications of telemetry.
- Q.34 Explain PDPT diaphragm transmitter.
- Q.35 Write the importance of Industrial communication.

#### Section-D

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

- Q.36 Draw and explain P.C.M. in detail.
- Q.37 Explain in detail the block diagram of data communication system.
- Q.38 Describe Hydraulic Transmitter in detail.

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#### **4th Sem. Branch : Instrumentation & Control** **Sub. : Industrial Communication / Principles of Telemetry**

Time : 3 Hrs.

M.M. : 100

#### SECTION-A

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 PDPT diaphragm type transmitter is a \_\_\_\_\_.
  - a) Pneumatic Transmitter
  - b) Electric Transmitter
  - c) Hydraulic Transmitter
  - d) None of these
- Q.2 High speed Ethernet works on \_\_\_\_\_.
  - a) Coaxial cable
  - b) Twisted pair cable
  - c) Optical fiber
  - d) None of these
- Q.3 The conversion of Analog to digital signal is called the \_\_\_\_\_.
  - a) Quantization
  - b) Decoding
  - c) Encoding
  - d) Modulation
- Q.4 For small distance communication which modulation is mostly suited.
  - a) FM
  - b) PAM
  - c) AM
  - d) FDM

- Q.5 A computer network permits sharing of \_\_\_\_\_.  
 a) Radio channels      b) Wire line channels  
 c) Microwave channels   d) None of these
- Q.6 Main function of anti-aliasing filter in communication is to \_\_\_\_\_.  
 a) To reduce cross talk  
 b) To reject unwanted signal  
 c) To improve gain  
 d) To improve fidelity
- Q.7 F.D.M. stand for \_\_\_\_\_.  
 a) Frequency division Multiplexing  
 b) Frequency domain Modulation  
 c) Frequency developed Modulation  
 d) None of these
- Q.8 Industrial Telemetry is authorized in which band  
 a) L                              b) S  
 c) P                              d) M
- Q.9 IN which modulation, frequency of carrier signal is varied by modulating signal.  
 a) FM                              b) PAM  
 c) PM                              d) PCM
- Q.10 Which of the following is a landline telemetry system?  
 a) PCM                              b) Delta  
 c) Voltage telemetry      d) AM

### Section-B

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

- Q.11 Expand FSK.
- Q.12 AM having better noise immunity than FM. (True/False)
- Q.13 Mention one Application of TDM.
- Q.14 Give one advantage of PAM.
- Q.15 Mention one Pneumatic transmitter.
- Q.16 Mention one Difference between TDM and FDM.
- Q.17 Ratio telemetry is an example of landline telemetry. (True/False)
- Q.18 Expand PCM.
- Q.19 FSK need more Channel bandwidth than PSK. (True/False)
- Q.20 Expand GPIB.

### Section-C

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

- Q.21 What are the methods of data transmission?
- Q.22 Discuss current telemetry system with its diagram.
- Q.23 Explain inductive transmitter.
- Q.24 Give advantages of data communication.
- Q.25 Briefly explain frequency division multiplexing.