

- 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.

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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.