Q.27 Describe various transmission channels.

Q.28 Write a short note on Hart Communication Protocol.

Q.29 Describe applications of telemetry systems.

Q.30 Explain Ethernet/LAN.

Q.31 What is a Land Line telemetry system?

Q.32 Write a short notes on wireline channels and Radio channels.

Q.33 Explain the force balance type of pneumatic transmitter.

Q.34 Differentiate between A.M. and F.M.

Q.35 What is data communications?

SECTION-D

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

Q.36 Draw and explain P.A.M in detail.

Q.37 Explain Ethernet & its classifications.

Q.38 Describe PDPT diaphragm-type pneumatic transmitter.

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4th Sem / IC

Subject:- Industrial Communications / Principles of Telemetry

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 A signal can be described by:

a) Amplitude b) Frequency

c) Phase d) All of these

Q.2 In_____ modulation, the amplitude of a carrier 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.3 Who converts the output of a primary sensing element into an electrical signal and transmits it to the telemetry channel?

a) Receiver b) Transmitter

c) Channel d) Display device

Q.4 Which is the simplest types of channel for transmission of information

a) Microwave channels

b) Wireline channels

c) Radio channels

d) None of these

Q.5 Fast Ethernet has a data rate of_____ mbps

a) 10 b) 100

c) 1000 d) 10000

Q6 A computer network permits sharing of

a) Resources b) Information

c) Both A & B d) None of these

Q.7 P.A.M. is the simplest form of

a) T.D.M b) F.D.M

c) A.M d) R.M

Q8 The minimum frame length for 10 mbps Ethernet is_____ bytes

a) 32 b) 180

c) 128 d) None of these

Q.9 PDPT bellow type transmitter is a _____

a) Hydraulic Transmitter

b) Pneumatic Transmitter

c) Electric Transmitter

d) None of these

Q.10 In frequency modulation, the frequency of the carrier signal is modulating signal

a) Lower b) Higher

c) Equal d) None of the above

SECTION-B

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

Q.11 Is voltage telemetry an example of landline telemetry?

Q.12 _____ receives the data in the telemetry system.

Q.13 Expand F.D.M.

Q.14 Which technology connects the machine and people within a site of a small area.

Q.15 _____ refers to the information that is continuos.

Q.16 Expand P.A.M.

Q.17 Mention one difference between A.M. and F.M.

Q.18 Write the name of one pneumatic transmitter.

Q.19 Mention one application of instrumentation buses.

Q.20 Expand F.S.K.

SECTION-C

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

Q.21 Discuss Instrumentation buses.

Q.22 Write about Resistive transmitters.

Q.23 Explain the block diagram of the general telemetry system.

Q.24 Define landline telemetry and its types.

Q.25 Write a short note on Time division multiplexing.

Q.26 Discuss block diagram of Data Communication.