3rd Sem / Comp, IT
Subject:- Data Communication

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 _____ is a network that covers geographic areas that are larger, such as districts or cities
a) LAN b) MAN
c) WAN d) None of these

Q.2 Both stations can transmit and receive data simultaneously in
a) Simplex Mode b) Half Duplex Mode
c) Full Duplex Mode d) Unicode

Q.3 An Analog Signal is continuous in both _____ and_____.
a) Frequency & power
b) Time, amplitude
c) Modulation, Waveform
d) Segments, Packets

Q.4 In_____ encoding, we use three levels: positive, zero and negative.
a) Unipolar b) Polar
c) Bipolar d) None of above

Q.5 Which of the following is not a digital-to-analog conversion?
a) ASK b) PSK
c) FSK d) AM

Q.6 The number of bits transmitted or received per second is defined as
a) Transmission rate b) Reception rate
c) Transceiver rate d) Baud rate

Q.7 Multiplexing is used in_____
a) Packet switching
b) Circuit switching
c) Data switching
d) Packet & circuit switching

Q.8 In TDM, slots are further divided into_____
a) Seconds b) Frames
c) Packets d) Bits

Q.9 Guided media is also known as_____.
a) Bound media b) Guided media
c) Unguided media d) None of the above

Q.10 Which of the following is /are the popular techniques for error detection?
a) Cyclic Redundancy Check
b) Checksum
c) Simple Parity check
d) All of the options

SECTION-B

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

Q.11 Lists the various types of flow of data?

Q.12 What is a Network?

Q.13 Define Analog Data?

Q.14 Write the name of various types of signals?

Q.15 Define Analog transmission?

Q.16 What are the types of conversion during transmission?

Q.17 What do you mean by serial transmission?

Q.18 What is multiplexing?

Q.19 What are the types of TDM?

Q.20 What is Guided Media?

SECTION-C

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

Q.21 What are the various transmission modes in the network?

Q.22 Write down the advantages of distributed processing?

Q.23 Differentiate between Star & Bus Topology?

Q.24 Write the various difference between Analog and Digital Signals?

Q.25 How Bandwidth is different from throughout?

Q.26 What is the function of ADC and DAC?

Q.27 List the characteristics of ASK?

Q.28 Write a note on Parallel Processing?

Q.29 Explain the working of sampler in PCM?

Q.30 List down the various Polar schemes?

Q.31 What is Coaxial cable?

Q.32 Differentiate between Guided and Unguided media?

Q.33 Write a note on twisted pair cable?

Q.34 Explain the process of error detection?

Q.35 How Parity is generated?

SECTION-D

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

Q.36 What is Network? Differentiate between LAN, WAN & MAN?

Q.37 Explain analog & digital data & signals. Write the difference between analog & digital signals?

Q.38 Define Modulation. Explain AM, PM, and FM with the help of diagram?