

No. of Printed Pages : 4
Roll No.

181053/171053

5th Sem / Eltx
Subject:- Digital Communication

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 The modulation techniques used to convert analog signal into digital signals are
- a) Pulse code modulation
 - b) Delta modulation
 - c) Adaptive delta modulation
 - d) All
- Q.2 The combination compressor and expander
- a) Compander b) Encoder
 - c) Decoder d) None of these
- Q.3 Which type of demodulator is used in the frequency hopping technique
- a) Coherent
 - b) Non coherent
 - c) Coherent and Non Coherent
 - d) None of the above

- Q.4 In flat top sampling _____ is kept constant
- a) Phase b) Amplitude
 - c) frequency d) Time period
- Q.5 Modem stands for
- a) Modulator
 - b) Demodulator
 - c) Modulator and Demodulator
 - d) None of these
- Q.6 Blocking is not a problem in a _____ switch
- a) Single stage b) Two stage
 - c) Multistage d) Three stage
- Q.7 RS-232 is an example of _____ transmission
- a) Synchronous b) Asynchronous
 - c) Both A and B d) None of these
- Q.8 Types of modulation used in MODEMs
- a) FSK b) QPSK
 - c) QAM d) All of above
- Q.9 In differential code modulation techniques the decoding is performed by
- a) Sampler b) Accumulator
 - c) PLL d) Quantizer
- Q.10 PCM frame contains a group of _____ bits.
- a) 16 b) 24
 - c) 28 d) 32

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SECTION-B

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

- Q.11 Define PPM?
- Q.12 Define synchronization?
- Q.13 What do mean by equalizers?
- Q.14 Define QPSK?
- Q.15 Expand DPCM?
- Q.16 Write the ways to increase the channel band width
- Q.17 Define crosstalk?
- Q.18 Define eco suppressor?
- Q.19 Define ICW?
- Q.20 Draw a PAM wave

SECTION-C

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

- Q.21 Explain basic block diagram of data communication system?
- Q.22 In which way digital transmission is better than analog transmission?
- Q.23 What do you understand by frequency Hopping?
- Q.24 Write a note on band width requirement of data transmission circuits.

- Q.25 Differentiate between synchronous and Asynchronous TDM?
- Q.26 Discuss phase shift keying?
- Q.27 Write a note on equalizers?
- Q.28 Explain FSK in brief.
- Q.29 What are the various types of modems according to transmission speed?
- Q.30 List the advantages and disadvantages of PCM?
- Q.31 Write the concept of delay distortion?.
- Q.32 Differentiate between packet switching and message switching.
- Q.33 Explain the error of quantization.
- Q.34 Explain RS232C interface in brief.
- Q.35 Explain two tone modulation.

SECTION-D

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

- Q.36 Explain various frequency hopping spread spectrum techniques?
- Q.37 With the help of block diagram, explain ASK system?
- Q.38 Explain various types of noise in digital communication system?