

No. of Printed Pages : 4 180835/170835/120835
Roll No. /30835

Computer Engg.
Subject:- Data Communication

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 What is largest unit of data?
a) tera byte b) giga byte
c) byte d) mega byte
- Q.2 ASCII stands for:-
a) American special computer for information interaction.
b) American special computer for information interchange.
c) American special code for information interaction.
d) American standard code for information interchange
- Q.3 Both stations can transmit and receive data simultaneously
a) simplex b) half duplex
c) full duplex d) unicode

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- Q.4 What is smallest representation of data?
a) byte b) mega byte
c) kilobyte d) giga byte
- Q.5 Which of the following is not property of signals?
a) delay b) phase
c) amplitude d) frequency
- Q.6 Types of digital to analog conversion.
a) ASK b) PSK
c) FSK d) all of the above
- Q.7 What components used in PCM technique?
a) sampler b) quantizer
c) encoder d) all of the above
- Q.8 Digital data refers to the information that is
a) continuous b) discrete
c) bits d) bytes
- Q.9 Multiplexing is used in -
a) packet switching
b) circuit switching
c) data switching
d) packet and circuit switching
- Q.10 In TDM, slots are further divided into-
a) Seconds b) frames
c) packets d) bits

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SECTION-B

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

- Q.11 In frequency shift keying, frequency of the _____ changes with the change in data signal.
- Q.12 Radio waves support frequency range of _____.
- Q.13 What is redundant bit?
- Q.14 Define topology.
- Q.15 Transmission media are usually categorized as-
- a) determinate or indeterminate
 - b) fixed or unfixed
 - c) guided or unguided
 - d) metallic or non metallic
- Q.16 Define periodic signals.
- Q.17 Define baseband transmission.
- Q.18 Which multiplexing is based on variable time slots.
- Q.19 What are working frequencies of microwaves and infrared waves?
- Q.20 Define noise.

SECTION-C

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

- Q.21 Differences between analog and digital signal.

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- Q.22 Discuss transmission impairments.
- Q.23 What is need of modulation?
- Q.24 Explain digital to analog conversion.
- Q.25 Redundancy increases the message size, but still used. Explain why?
- Q.26 Explain guided transmission media.
- Q.27 Explain parity bit method with example.
- Q.28 What is cyclic redundancy test method, explain?
- Q.29 Discuss frame format of synchronous communication.
- Q.30 What are various data flow networks?
- Q.31 Compare serial and parallel transmission.
- Q.32 Explain FDM.
- Q.33 What impact error does on signal and data?
- Q.34 Explain AM and FM.
- Q.35 What are characteristics of composite signal?

SECTION-D

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

- Q.36 What are different types of network, compare LAN, MAN and WAN?
- Q.37 What are different factors used for performance measure of data transmission?
- Q.38 What is analog to digital conversion, explain delta modulation with diagram?

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