

No. of Printed Pages : 4
Roll No.

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3rd Sem / Computer, IT
Subject:- Data communication

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 Which transmission impairment makes a signal weak? (CO-2)

- a) Noise b) Attenuation
- c) Jitter d) Bandwidth

Q.2 Aperiodic signals _____ (CO-2)

- a) Repeats its cycle periodically
- b) Do not repeat
- c) CRC
- d) None of these

Q.3 Full form of CRC is _____

- a) Cycle Reduce Check
- b) Code Random check
- c) Cycle Round check
- d) Cycle Redundancy check

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Q.4 Full form of TDM is _____

- a) Twisted Division Multiplexing
- b) Time Division Multiplexing
- c) Time Division Microwave
- d) Time Dual Multiplexing

Q.5 What is largest unit of data ?

- a) Tera Byte b) Giga Byte
- c) Byte d) Mega Byte

Q.6 Both stations can transmit and receive data simultaneously (CO-1)

- a) Simplex b) Half Duplex
- c) Full Duplex d) Unicode

Q.7 _____ not a type of unguided transmission media

- a) Fiber Optics b) Microwave
- c) Radio Wave d) Infrared

Q.8 Which of the following is not a type of multiplexing

- a) ADM b) FDM
- c) TDM d) WDM

Q.9 FSK is the example of which type of conversion

- a) Analog to Analog b) Digital to Analog
- c) Analog to Digital d) Digital to Digital

Q.10 Double error means _____

- a) One bit error b) two bit error
- c) Three bit error d) None of above

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SECTION-B

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

- Q.11 Full form of DM_____
- Q.12 Define parity bit.
- Q.13 List the name of any two causes behind impairments.
- Q.14 WDM stands for_____.
- Q.15 _____ bits acts as redundant bit that helps in error detection.
- Q.16 In frequency shift keying, frequency of the _____ changes with the change in data signal.
- Q.17 Transmission media are usually categorized as_____.
- Q.18 Define Data communication.
- Q.19 List any two types of errors.
- Q.20 Define Noise.

SECTION-C

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

- Q.21 Difference between synchronous and asynchronous TDM.
- Q.22 Write a note on MAN.
- Q.23 Write five differences between periodic signal and aperiodic signal.
- Q.24 Compare serial and parallel transmission?

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- Q.25 Differentiate between forward error correction and retransmission.
- Q.26 Explain the distributed processing.
- Q.27 Differentiate between forward error detection and retransmission.
- Q.28 What do you mean by Multiplexing Explain their types also.
- Q.29 Explain guided transmission media.
- Q.30 Explain the cyclic redundancy check.
- Q.31 Discuss frame format of synchronous communication .
- Q.32 Explain the concept of FDM with the help of diagram.
- Q.33 Explain block parity to detect the double error.
- Q.34 Write a note on Radio Wave.
- Q.35 Explain fiber optics cable with its advantages.

SECTION-D

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

- Q.36 What do mean by unguided media. Explain any two types of unguided media in detail.
- Q.37 What are the different factors used for performance measure of data transmission ?
- Q.38 Explain analog to analog conversion-AM, FM and PM.

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