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Roll No. /030835

3rd Sem / Branch : Computer Engg., IT
Sub.: Data Communication

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Periodic signal _____.
a) Repeats its cycle periodically
b) Do not repeat
c) CRC
d) None of then
- Q.2 Which transmission impairment makes a signal weak?
a) Noise b) Attenuation
c) Jitter d) Bandwidth
- Q.3 Full form of PCM is _____.
a) Parity Chemistry Module
b) Pulse Code Module
c) Pulse Code Modulation
d) Periodic Code Module
- Q.4 Which is not the guided media?
a) Twisted pair cable b) Coaxial cable
c) Optical Fiber d) Microwave

(1) 180835/170835/120835
/030835

- Q.5 Full form of TDM is _____.
a) Twisted Division Multiplexing
b) Time Dual Multiplexing
c) Time Division Multiplexing
d) Time Division Microwave
- Q.6 Full form of CRC is _____.
a) Cycle Reduce Check
b) Code Random Check
c) Cyclic Round Check
d) Cyclic Redundancy Check
- Q.7 Full form of LAN is _____.
a) Land Area Normal
b) Local Around Network
c) Local Area Network
d) Local Aperiodic Network
- Q.8 Which is the name of topology?
a) Frequency b) Star
c) Phase d) Noise
- Q.9 Full form of ASK is _____.
a) Attenuation Shift Keying
b) Amplitude Secondary Keying
c) Asymmetric Shift Keying
d) Amplitude Shift Keying

(2) 180835/170835/120835
/030835

- Q.10 Double error means _____.
a) One bit error b) Two bit error
c) Three bit error d) None of them

SECTION-B

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

- Q.11 Define data communication.
Q.12 Define analog signal.
Q.13 Define digital signal.
Q.14 Define bandwidth.
Q.15 Full form of DM is _____.
Q.16 Name the transmission modes.
Q.17 Define redundancy.
Q.18 Define parity bit.
Q.19 Write the type of errors.
Q.20 Name of two types of parity bit.

SECTION-C

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

- Q.21 Explain the network criteria.
Q.22 Explain LAN, MAN, WAN.
Q.23 Explain the distributed processing.

(3) 180835/170835/120835
/030835

- Q.24 Write Five difference between periodic signal and aperiodic signal.
Q.25 Explain transmission impairment-attenuation distortion and noise.
Q.26 Explain the performance parameters-bandwidth, throughput, latency and jitter.
Q.27 Explain FDM.
Q.28 Explain ASK, FSK, PSK.
Q.29 Explain pulse code Modulation.
Q.30 Explain twisted pair cable with its type.
Q.31 Differentiate between forward error correction and retransmission.
Q.32 How will the block parity to detect and double errors.
Q.33 Explain the block parity to detect the double errors.
Q.34 Explain the cyclic redundancy check.
Q.35 Explain the components of data communication.

SECTION-D

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

- Q.36 Explain multiplexing and its types.
Q.37 Explain analog to analog conversion - AM, FM, PM.
Q.38 Explain guided media and unguided media along with their type.

(1720)

(4) 180835/170835/120835
/030835