1205E257

Candidate's Seat No : _____

BCA Sem 5 Examination
CC - 303
Computer Network
May 2022

Time : 2-00 Hours]

[Max. Marks : 50

Instructions: All questions in Section I carry equal marks.
Attempt any TWO questions in Section I.
Question V in Section II is COMPULSORY.

Section I

Que:1(A) What is data communication? Explain simplex, half-duplex, full-duplex transmission. (10)

(B) List different modulation techniques. Explain any two in detail. (10)

Que:2 (A) What is transmission error? Explain any two error recovery methods. (10)

(B) What is multiplexing? Explain TDM and WDM in detail. (10)

Que:3 (A) List various network topologies. Explain any two in detail. (10)

(B) What is switching? Explain methods of Packet switching (10)

Que:4 (A) Explain 7-layer OSI model in detail. (10)

(B) Explain ISDN architecture and interface in detail. (10)

Section II

Que: 5 Answer following. (10)

1. A set of rules that govern data communications between sender and receiver is called _____.
   a. Rule   c. Law
   b. Protocol   d. Option

2. _____ signals are on-off in nature.
   a. Analog   c. Mixed
   b. Digital   d. None of these

3. Parallel transmission is generally used for _____ distances.
   a. Long   c. Short
   b. Very long   d. Intercity

P.T.O

4. In _____, the medium is divided into a number of channels, each with a frequency bandwidth.
   - a. FDM
   - c. STDM
   - b. TDM
   - d. None of these

5. As a signal travels through any medium, its strength decreases due to _____.
   - a. Noise
   - c. Attenuation
   - b. Delay distortion
   - d. Retransmission

6. Out of all the guided media, _____ has the highest data transmission rates.
   - a. UTP
   - c. Coaxial cable
   - b. STP
   - d. Optical fiber

7. Message switching is also called _____ technique.
   - a. Get and hold
   - c. Store and forward
   - b. Store and release
   - d. Store and never release

8. The standard for Bluetooth is called _____.
   - a. IEEE 802.15
   - c. IEEE 802.11
   - b. IEEE 802.2
   - d. IEEE 802.5

9. Types of bridges can be _____.
   - a. Simple
   - c. Multiport
   - b. Learning
   - d. All of these

10. A transceiver connects a _____ to _____.
    - a. Computer, computer
    - c. Network, network
    - b. Computer, Ethernet
    - d. Ethernet, Ethernet

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