2203E1304   Candidate's Seat No :_____

B.C.A. Semester-5 Examination
CC-303
Computer Network

Time : 2-30 Hours]   March-2024   [Max. Marks : 70

Q-1   Write the Following.
1 Explain fundamental concept of data communication? Explain characteristics of   7
     data communication.
2 Explain parallel and serial communication.   7

OR

1 Explain analog signal, digital transmission in detail.   7
2 Discuss the concept of simplex, half duplex and full duplex.   7

Q-2   Write the Following.
1 What is multiplexing? List types of multiplexing and explain TDM with its types. 7
2 Explain error with its types in data transmission and also explain CRC with   7
     example.

OR

1 Explain FDM and WDM multiplexing methods.   7
2 Explain Go-Back-N error recovery method.   7

Q-3   Write the Following.
1 What is transmission media? Discuss guided media with its types.   7
2 What is topology? List the topology and explain any three.   7

OR

1 Write a detailed note on satellite communication.   7
2 What is switching? Explain packet switching.   7

Q-4   Write the Following.
1 Write a detailed note on OSI Model.   7
2 Discuss the FDDI with its properties and Self-Healing Mechanism.   7

OR

1 What is ethernet? Explain properties of ethernet.   7
2 Write a note on repeater, bridge and router.   7

Q-5   Answer the Following. (Any Seven)   14
1 _____ satellites are minimally required to cover the entire earth.

A	3	C	5
B	4	D	6

2 _____ detects zeroes and ones and regenerates them

A	Amplifier	C	Multiplexer
B	Repeater	D	Modem

P.T.O

3 Optical fibers use _____ for data transmission.

A	Current	C	Light
B	Voltage	D	All of above

4 _____ defines the structure or format of data.

A	Syntax	C	Standards
B	Semantics	D	None of Above

5 Set of rules and conventions that govern data communication is known as _____.

A	Standards	C	Regulations
B	Protocols	D	None of these

6 A checksum also called _____.

A	Fixsum	C	Hashsum
B	Functionsum	D	Doublesum

7 Which internetworking device works at all the layers of OSI model?

A	Router	C	Repeater
B	Gateway	D	Bridge

8 Wi-Fi stands for _____.

A	Wireless Frequency	C	Wireless Fidelity
B	Wireless Force	D	Wireless Feasibility

9 The time taken by the signal for the completion of one cycle is called _____.

A	Period	C	Amplitude
B	Frequency	D	Phase

10 Which switching technique first establish the path and then send the data?

A	Packet	C	Message
B	Circuit	D	All of Above

11 _____ is the most commonly used transmission medium.

A	Optical Fiber	C	UTP
B	STP	D	Coax

12 _____ controls various cell offices and coordinates the communication between them.

A	MTSO	C	TCO
B	IMTS	D	AMPS