

Paper Code : 21322

F-422

B.C.A. (Fifth Semester) Examination, 2023-24

(New Course)

Paper : BCA-502-N

Computer Network

Time : Three Hours] [Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal i.e. 14 marks. Symbols used have their usual meanings.

1. (a) What is the primary cause of signal loss in satellite communication?
- (b) Explain the advantages & limitation of Twisted pair wire and fiber optical cable.

(1)

P.T.O.

2. (a) How is TDM different from FDM? Explain with example.
- (b) List the advantages of layering as seen in TCP/IP architecture.
3. (a) Explain the use of hamming code for error detection with the help of example.
- (b) What is ISDN? Explain different types of ISDN.
4. (a) Explain Bridges, Switches, Repeater and Router.
- (b) What is various transmission impairments in data communication?
5. (a) What is IEEE Standard 802.3? Differentiate Ethernet IEEE Standard 802.4 with Token Ring
- (b) Explain various framing method in Data Link Layer.

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6. (a) Explain ALOHA protocol for a multi access Channels.
(b) Explain the functions of TCP Protocols.
7. (a) Explain Routing algorithm.
(b) Differentiate Packet Switching with Message Switching.
8. Write short notes on any four of the following:
 - (a) OSI Model
 - (b) X.25
 - (c) HTTPs & DNS
 - (d) Go-back-N Protocol
 - (e) Firewall
 - (f) Types of LAN