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Unit-I

2. What do you mean by ISO-OSI reference model?
Explain function, services and protocol of each layer
3. Explain:
 - (i) ATM
 - (ii) Client server model
 - (iii) Network Topology
 - (iv) X.25

Unit-II

4. (a) Explain:
 - (i) Bid rate
 - (ii) Baud Rate
 - (iii) Channel
 - (iv) Bandwidth
- (b) Differentiate the following :
 - (i) Digital and analog signal
 - (ii) Synchronous and asynchronous Communication
5. (a) What do you mean by Transmission Media?
Explain various Transmission Media

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- (b) Explain :
 - (i) Multiplexing
 - (ii) DSL Services

Unit-III

6. Explain various network hardware components
7. (a) Explain different type of error detection technique
- (b) Explain :
 - (i) Token ring
 - (ii) FDDI

Unit-IV

8. (a) What do you mean by congestion? How can we control the congestion? Explain
- (b) What do you mean by cryptography? Describe encryption method
9. What do you mean by routing? Explain Link State Routing and Distance Vector Routing algorithm.

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**BCA 5th Semester (Re-appear)
Examination, May-2023
DATA COMMUNICATION AND NETWORKING
Paper-BCA-303**

Time allowed : 3 hours
[Maximum marks : 80]

Before answering the question, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination

Note: Attempt five questions in all, selecting one question from each unit. Question no. 1 is compulsory. All questions carry equal marks.

- I. (a) Differentiate between LAN and WAN
(b) What is the difference between connection less and connection-oriented services
(c) What is Modulation?
(d) What is data rate?
(e) What is VLAN?
(f) What is Ethernet?
(g) What is Datagram?
(h) What are the network security issues?

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[P.T.O.]