

BCA / D-19
COMPUTER NETWORKS
Paper-BCA-354

Time allowed : 3 hours]

[Maximum marks : 80

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

Compulsory Question

1. (a) What do you mean by Gateways ?
(b) Define PC Cards.
(c) What do you mean by Baud Rate ?
(d) Write short note on Switching.
(e) What is ALOHA ?
(f) What do you mean by Token BUS ?
(g) What is Digital Certificate ?
(h) What do you mean by flooding ?

8×2=16

Unit-I

2. (a) Explain Networking Models. 8
(b) What are various Network Design Issues. 8
3. Explain the following: 16
 - (a) Repeaters
 - (b) Connectors
 - (c) Bridges
 - (d) Routers

(2)

Unit-II

4. What are various Multiplexing Techniques ? Explain. 16
5. Explain various available wireless Transmission Media. 16

Unit-III

6. What do you mean by Networking Protocols ? Explain sliding window protocols. 16
7. (a) What is CSMA ? Discuss. 8
(b) What are collision Free Protocols, Explain ? 8

Unit-IV

8. Explain link State Routing and Hierarchical Routing. 16
9. How security is performed in Networks ? Explain various types of existing security attacks and their remedies in networks. 16