

NOVEMBER/DECEMBER 2019

**BCA53 — DATA COMMUNICATION AND
NETWORKS**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Networks.
2. What is Twisted Pair?
3. Define Bit-Map protocol.
4. Expand CSMA/CD.
5. Mention the two major class of Routing Algorithm.
6. Define Tunneling.
7. Specify the state of Transport Entity.
8. Define Port.
9. What is LDAP?
10. State the use of Session Initiation protocol.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the Spectrum Allocation.
Or
(b) Discuss on Connection-Oriented and Connectionless Service.
12. (a) Elaborate the various method of Framing in Data link layer.
Or
(b) Write short note on Carrier Sense Multiple Access protocols.
13. (a) Discuss on Network layer design issues.
Or
(b) Explain the Shortest path routing with suitable example.
14. (a) Summarize about the Transport Service primitives.
Or
(b) Describe about the TCP Segment header.
15. (a) Write short note on URLs.
Or
(b) Discuss on Network Security.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Briefly discuss on Network Hardware.
17. Explain the Multiple access protocol with example.
18. Write brief note on Fragmentation.
19. Discuss the elements of Transport Protocols.
20. Illustrate the Electronic Mail.