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31/1/25

DCCA302

Reg. No.

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III Semester B.C.A. Degree Examination, January/February 2025

COMPUTER SCIENCE

Computer Networks

(NEP Scheme Freshers + Repeaters)



Time : 2½ Hours

Maximum Marks : 60

Instructions to Candidates:

Answer any Four questions from each section.

SECTION - A

Answer any Four questions. Each question carries 2 marks.

(4×2=8)

1. Define Computer Networks.
2. Mention types of Networks.
3. What is CSMA and CSMA/CD?
4. Define ICMP.
5. What is HTTP?
6. What is WWW?

SECTION - B

Answer any Four questions. Each question carries 5 marks.

(4×5=20)

7. Explain TCP/IP architecture.
8. Explain the types of transmission model.
9. Explain HDLC frame format.
10. State the difference between IPV4 and IPV6.

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11. Explain the following:

FDMA and TDMA.

12. What is Domain Name System?

SECTION - C

Answer any Four questions. Each question carries 8 marks.

(4×8=32)

13. Explain the OSI reference model with a neat diagram.

14. Explain the following topologies:

a) Bus topology.

b) Star topology

c) Mesh topology

d) Hybrid topology

15. Explain Pure and Slotted ALOHA.

16. Explain Leaky bucket and Token bucket algorithm.

17. Explain distance vector routing algorithm with an example.

18. Write a note on:

a) FTP.

b) Telnet.
