345949 **DCCA-303**

III Semester B.C.A. Degree Examination, December/January - 2025/26
(NEP Scheme Repeaters)
COMPUTER APPLICATIONS
Computer Communication and Networks
Paper : CAC09

Rep

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Time : 2½ Hours **Maximum Marks : 60**

***Instructions*:**

Answer All the Sections.

SECTION - A

I. Answer any Six questions. Each question carries 2 marks. **(6×2=12)**

1. Define computer networks.
2. What is twisted pair cable?
3. What is switching?
4. What is framing?
5. What do you mean by congestion control?
6. What is hierarchical routing?
7. What is flooding?
8. Expand TCP and UDP.
9. Mention any two elements of transport services.

SECTION - B

II. Answer any Four questions. Each question carries 6 marks. **(4×6=24)**

10. Explain any two types of transmission modes.
11. Write short note on Multiplexing.

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12. Explain CRC with an example.

13. Explain the various error detection Algorithms.

14. Explain distance vector routing algorithm.

15. Explain the elements of transport routing algorithm.

SECTION - C

III. Answer any Three questions. Each question carries 8 marks. **(3×8=24)**

16. What are different layers in OSI model and explain each of them with neat diagram. **(8)**

17. Explain about noiseless channel and noisy channel with example. **(8)**

18. a) Discuss sliding window protocol. **(4)**
    b) Mention any three functions of Transport layer. **(4)**

19. Discuss token bucket algorithm with an example. **(8)**

20. Explain TCP segment packet format. **(8)**
