

THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025

(FYUGP)

CC24UBCA3CJ202 - COMPUTER NETWORKS

(Computer Application - Major Course)

(2024 Admission -Regular)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)Answer ***all*** questions. Each question carries 3 marks.

1. Explain time division multiplexing. [Level:2] [CO1]
2. Discuss on digital signals and its types. [Level:2] [CO1]
3. List the difference Between the Internet and Intranet. [Level:2] [CO1]
4. Analyse various ethernet standards. [Level:4] [CO2]
5. Categorize the steps to explain Checksum. [Level:4] [CO2]
6. Explain the functions of DHCP protocol. [Level:2] [CO3]
7. Explain Tunneling. [Level:2] [CO3]
8. Express the address space of IPV6 in TCP/IP protocol suite with figure. [Level:2] [CO3]
9. Justify Open loop congestion control techniques. Explain any two. [Level:5] [CO4]
10. Conclude the process of working of e-mail with a figure. [Level:5] [CO4]

(Ceiling: 24 Marks)**Part B (Paragraph questions/Problem)**Answer ***all*** questions. Each question carries 6 marks.

11. Explain on various categories of Network. [Level:2] [CO1]
12. Distinguish CSMA/CD and CSMA/CA. [Level:4] [CO2]
13. Compare the different types of errors . [Level:4] [CO2]
14. Distinguish selective repeat and Go-Back-N-ARQ in detail. [Level:4] [CO2]
15. Summarize the concept of internetworking and Explain packet forwarding. [Level:2] [CO3]

16. Describe various connecting devices in computer networks. [Level:2] [CO3]

17. Validate why UDP protocol is important for real time live streaming. [Level:5] [CO4]

18. Justify the importance of domain name system. [Level:5] [CO4]

(Ceiling: 36 Marks)

Part C (Essay questions)

Answer any **one** question. The question carries 10 marks.

19. Summarize the different types of topology with neat diagrams. [Level:2] [CO1]

20. Summarize the different types of guided and unguided transmission media. [Level:2] [CO1]

(1 × 10 = 10 Marks)
