

22U628

(Pages: 2)

Name :

Reg. No :

SIXTH SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2025

(CBCSS-UG)

(Regular/Supplementary/Improvement)

CC19U BCS6 B13 / CC19U BCA6 B13 - COMPUTER NETWORKS

(Computer Science / Computer Application - Core Course)

(2019 Admission onwards)

Time: 2 Hours

Maximum: 60 Marks

Credit: 3

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. List the functions of Physical layer.
2. Define circuit switching.
3. Distinguish Burst error and single bit error.
4. Define Piggybacking.
5. Define ALOHA.
6. List the various IPV4 to IPV6 transition strategies.
7. List the functions of RARP protocol.
8. Define Routing protocols.
9. Describe connection oriented and connectionless protocols with examples.
10. Explain SCTP protocol.
11. Describe ciphers.
12. Describe modern block ciphers.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)

Answer *all* questions. Each question carries 5 marks.

13. Write a detailed note on various topologies and discuss advantages and disadvantages of each.
14. Write a note on various connecting devices in computer networks.
15. Discuss IPV6 packet format with suitable diagram.
16. Define Open loop congestion control techniques in detail.
17. Write a note on working of e-mail.

18. Describe SHA-1 Hash algorithm. Explain.
19. Discuss the concept of signing the Digest. Explain.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Define Ethernet. Explain various ethernet standards.
21. Define Asymmetric key cryptography. Discuss RSA algorithm in detail with an example.

(1 × 10 = 10 Marks)
