

23U628

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Name:

Reg.No:

SIXTH SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, APRIL 2026

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19UBCS6B13 / CC19UBCA6B13 - COMPUTER NETWORKS

(Computer Science / Computer Application - Core Course)

(2019 Admission onwards)

Time : 2.00 Hours

Maximum : 60 Marks

Credit : 3

Part A (Short answer questions)

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

1. Write any two differences between OSI and TCP/IP model.
2. Define Ethernet.
3. Distinguish Active hub and Passive Hub.
4. List the functions of BOOTP protocol.
5. Define Routing protocols.
6. Explain any two uses of UDP protocol.
7. Describe multiple-stream concept in SCTP.
8. Explain the concept of leaky bucket.
9. Describe Symmetric and asymmetric cryptography.
10. Suppose in a substitutional cipher, if key is 5, how will you encrypt BEAUTIFUL ?
11. Explain the purpose of keys in cryptography.
12. Describe Digital signature.

(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 detailed note on Circuit switching.
15. Define VRC, LRC with suitable examples.
16. Write a note on working of Go-Back-N-ARQ with a neat diagram.

17. Define IPV4. Discuss the format of IPV4 datagram with suitable diagram.
18. Explain various techniques for transition from IPV4 to IPV6.
19. Discuss the working of email.

(Ceiling: 30 Marks)

Part C (Essay questions)

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

20. Write a detailed note on various random access protocols.
21. Describe Hash function. Explain Hash algorithms in detail.

(1 × 10 = 10 Marks)
