

25P260

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Name:

Reg.No:

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2026

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19PCSS2C08 - COMPUTER NETWORKS

(Computer Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

Part-A

Answer any *four* questions. Each question carries 2 weightage.

1. Identify the topologies in networks
2. Summarize the layers in OSI model with a figure.
3. Explain SMTP in detail.
4. Discuss how routing is done to a mobile node.
5. Discuss channel partitioning protocols.
6. Discuss the properties of secure communication.
7. Discuss Digital Signature.

(4 × 2 = 8 Weightage)

Part-B

Answer any *four* questions. Each question carries 3 weightage.

8. Explain HTTP and its message formats.
9. Demonstrate the working of DNS.
10. Explain connectionless transport protocol.
11. Discuss the need of congestion control mechanism in networks and how it is implemented in TCP.
12. Short note a) Switches b) Bridges
13. Describe a) PPP b) ATM
14. Discuss different attacks in cryptography.

(4 × 3 = 12 Weightage)

Part-C

Answer any *two* questions. Each question carries 5 weightage.

15. Describe the various access networks available.
16. Review a) DHCP b) NAT c) ICMP
17. Discuss error correction codes and hamming codes.
18. Summarize ARP as LAN addressing.

(2 × 5 = 10 Weightage)
