SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023

(CBCSS - PG)

(Regular/Supplementary/Improvement)

CC19P CSS2 C08 - 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. Explain TCP /IP model with a neat diagram.

3. Discuss SMTP as a mailing protocol.

4. Describe transport layer services.

5. Describe various services provided by the Link layer.

6. Explain the properties of secure communication.

7. Discuss Cryptographic Hash Functions and Message authentication code.

(4 × 2 = 8 Weightage)

Part-B

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

8. Describe HTTP and its types.

9. Practice socket programming with UDP.

10. Discuss IPv4 datagram format and addressing.

11. Discuss Distance Vector routing algorithm.

12. Short note   (a) Hubs (b) Bridges

13. Summarize (a) PPP   (b) ATM

14. Explain different security counter measures in cryptography.

(4 × 3 = 12 Weightage)

Part-C

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

15. Discuss packet switching and circuit switching.

16. Describe TCP as connection oriented protocol.

17. Summarize various multiple access protocols.

18. Summarize ARP as LAN addressing.

(2 × 5 = 10 Weightage)

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