

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2023
(Regular/Improvement/Supplementary)

COMPUTER SCIENCE
FCSS2C08-COMPUTER NETWORKS

Time: 3 Hours

Maximum Weightage: 30

Section A: Short answer questions. Answer any *four* questions. Each carries 2 weightage.

1. What are the different types of networks?
2. Explain HTTP.
3. What is DNS?
4. Elaborate on message switching.
5. Define ARQ.
6. What are switches?
7. Write a short note on digital signature.

(4 × 2 = 8 weightage)

Section B: Short essay questions. Answer any *four* questions. Each carries 3 weightage.

8. Explain CSMA/CD.
9. Compare IPv4 and IPv6.
10. Describe three way handshaking.
11. Explain the goals of security in Computer network.
12. Differentiate between TCP and UDP.
13. Explain firewall.
14. What is socket? Explain the structure.

(4 × 3 = 12 weightage)

Section C: Essay questions. Answer any *two* questions. Each carries 5 weightage.

15. Describe open and closed loop congestion controls.
16. What is cryptography? Explain public and private key to be used for cryptographic techniques.
17. Explain ISO-OSI reference model and explain the functionalities of each layer with a neat diagram.
18. Describe TCP congestion control mechanism in detail.

(2 × 5 = 10 weightage)