

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2025**(Regular/Improvement/Supplementary)****COMPUTER SCIENCE
FCSS2C08-COMPUTER NETWORKS****Time: 3 Hours****Maximum Weightage: 30****Section A: Answer any *four* questions. Each carries 2 weightage.***Write short notes on:*

1. Different categories of network.
2. HTTP.
3. Link State routing.
4. Digital signature.
5. Point-to-Point Protocol.
6. Diffie-Hellman Algorithm.
7. Types of routing.

(4 × 2 = 8 weightage)**Section B: Short essay questions. Answer any *four* questions. Each carries 3 weightage.**

8. What are the different types of transmission media in computer networks?
9. Differentiate between pure ALOHA and slotted ALOHA
10. Write a note on the components of SMTP.
11. Discuss the different types of bridges in computer network and also explain the function of bridge.
12. What are the different functions of Transport Layer?
13. Elaborate on the principles of authentication.
14. What are the differences between TCP and UDP?

(4 × 3 = 12 weightage)**Section C: Essay questions. Answer any *two* questions. Each carries 5 weightage.**

15. Explain TCP/IP Model and compare it with it ISO-OSI Model.
16. What is Ethernet? Explain its type and uses.
17. What is DNS? How DNS works?
18. Explain DES.

(2 × 5 = 10 weightage)