D2ACS2103 **(1 Page)** **Name.....**
Reg.No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, APRIL 2022
(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. Write a short note on network topology.
2. What are the components of optical fiber cable?
3. Explain the ATM cell format in detail.
4. Write a short note on digital signature.
5. Explain Go Back N protocol.
6. Give the different classes of IP.
7. What is HTTP?

(4 × 2 = 8 weightage)

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

8. Describe the architecture of TCP/IP model.
9. Explain name address resolution in detail.
10. Elaborate on the significance of firewall in computer network.
11. What is Socket? Explain the structure of socket programming.
12. Briefly explain Diffie Hellman algorithm.
13. Give an account on Sliding Window Protocols.
14. What is Routing? Explain Link State Routing.

(4 × 3 = 12 weightage)

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

15. Explain in detail about guided and unguided transmission media.
16. Write a socket program to transfer file from one system to another system in a network using UDP protocol.
17. Write notes on: a) Mobile network architecture; b) bridges.
18. Discuss the concept of user authentication and access control in detail.

(2 × 5 = 10 weightage)