A-1117

Total Pages : 3   Roll No. -------------

MCA-04

Fundamentals of Networking and Web Technology

Master of Computer Application

1ˢᵗ Semester Examination 2024

TIME: 2 Hours   **Max Marks: 70**

Note : This paper is of Seventy (70) marks divided into Two (02) Section A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

SECTION – A

Long-answer - type questions

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

(2×19=38)

1.   What is computer Network? Explain the difference between connection oriented and connectionless services.

P.T.O.

2. What are the different modes of communication? Explain with an example.

3. Describe the functions of various layers of the TCP/IP model.

4. What do you mean by network topology? Discuss briefly each type of network topology.

5. What is Transmission Medium? Explain Guided and Unguided transmission media with an example.

SECTION – B

Short – answer – type questions

Note: **Section 'B' contains eight (08) short- answer type questions of Eight (08) marks each.** *Learners are required to answer any Four (04) questions only.*

(4×8=32)

1. What are the advantages and disadvantages of optical fiber?

2. What is the difference between circuit switching and packet switching?

3. What is an IP address? Discuss the function of domain name system.

4. Compare OSI and TCP/IP network reference models.

5. What is an array? Explain with the help of an example.

6. Explain the different types of networking devices?

7. What is internet? Explain the architecture of internet.

8. Write a short note on SAN (storage area network).

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