A-0869

Total Pages : 4 **Roll No. ----------**

DIT-04

Fundamentals of Networking and Web Technology

(DIT/CCA)

2nd Semester Examination 2024(Dec.)

Time: 2:00 hrs Max. Marks: 100

Note : This paper is of Hundred (100) 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.

P.T.O.

Section-A (Long-Answer-Type Questions)

Note : Section 'A' contains Five (05) long-answer-type questions of Twenty Six (26) marks each. Learners are required to answer any Two (02) questions only.

[2x26=52]

Q.1. Describe the key goals of computer networks. Discuss the differences between LAN, MAN, and WAN with examples.

Q.2. What is the ISO-OSI model? Explain the functions of the transport layer and network layer.

Q.3. Discuss guided transmission media. Explain the role of radio waves and microwaves in communication.

Q.4. Explain the architecture of the World Wide Web. Discuss the roles of Web browsers and web servers.

Q.5. How can you create a form in HTML? Write an example to collect user details (name, email, and phone number).

Section-B (Short-Answer-Type Questions)

Note : Section 'B' contains Eight (08) short-answer-type questions of Twelve (12) marks each. Learners are required to answer any Four (04) questions only.

[4x12=48]

Q.1. What is the computer network? Explain the difference between connection-oriented and connectionless services.

Q.2. Write a short note on server-based LANs.

Q.3. What are the differences between IP addresses, MAC addresses and port numbers?

Q.4. Explain the role of the URL in web browsing.

Q.5. List the different list tags in HTML and give an example of each.

P.T.O.

Q.6. What are the advantages of fiber optic cables over other transmission media?

Q.7. Explain the use of arrays in JavaScript with an example.

Q.8. Define XML and state its advantages in web development.

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