Total Pages : 3   Roll No. ....

DIT-04

FUNDAMENTALS OF NETWORKING AND WEB TECHNOLOGY

(DIT/CCA)

Examination, June 2025

Time : 2:00 Hrs.   Max. Marks : 100

Note :– This paper is of Hundred (100) marks divided into Two (02) Sections '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   2×26=52

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.

1. Explain the different types of network topologies and their use cases with diagrams.

2. What is the TCP/IP reference model ? Explain its layers and their roles.

3. Discuss the role of guided transmission media in networking. Explain the features of coaxial cable and twisted pair cables.

4. Describe the structure of an IP address and the purpose of a Domain Name System (DNS) in internet communication.

5. Write the steps to create a simple static web page using basic HTML tags. Include examples of headings, paragraphs, and hyperlinks.

Section–B

Short Answer Type Questions   4×12=48

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.

1. Define broadcast and point-to-point networks with suitable examples.

2. Write a short note on peer-to-peer LANs.

3. What is switching in networking ? Briefly describe any two switching techniques.

4. Explain the importance of IP addresses in network communication.

5. What are the formatting tags in HTML ? Give examples of any three tags.

6. List the modes of communication and provide examples of each.

7. What is the role of cookies in web browsing ?

8. Explain the difference between client-side and server-side programming with example

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