839

Total Pages : 3   Roll No. ....

DIT-04

Fundamental of Web Technology

Diploma in Information Technology (DIT-17)

Second Semester Examination, 2021 (Winter)

Time : 2 Hours]   **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.

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.

(2×26=52)

1.   What is a transmission medium? Explain its types in detail.

2.   Discuss and differentiate between OSI and TCP/ IP model.

3. (a) Explain in detail about the Client and Server in World Wide Web.

(b) Explain in detail about the Physical layer in the Fast Ethernet.

4. Explain all the types of switching techniques.

5. (a) Describe the significance of error detection and error correction mechanisms in data link layer.

(b) What is the use of Uniform Resource Locater for the Client ? Explain.

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.

(4×12=48)

1. What is the difference between SLIP and PPP?

2. State the advantages of XML. Write a detailed note on XML syntax rules, XML elements and XML attributes.

3. Create, test, and validate an HTML document to describe an unordered list of at least four states. Each element of the list must have a nested list of at least three cities in the state.

4. Explain about the term FDM and WDM.

5. Discuss and differentiate between IPv4 and IPv6.

6. Explain various TCP congestion control mechanism.

7. What are the modes of communications? Explain in detail.

8. Write short notes on : Switch, Hub, Router and gateway.

————————