DIT-04

FUNDAMENTAL OF WEB TECHNOLOGY

Diploma in Information Technology (DIT-17)

Second Semester, Examination-2020

Time Allowed : 2 Hours   Maximum Marks : 80

Note : This paper is of Eighty (80) marks divided into Two (02) sections A and B. Attempt the question 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 (20) marks each. Learners are required to answer any two (02) questions only.   (2×20=40)

1. Explain with a neat sketch, the functions of the protocols used in each layer of the OSI model and illustrate how communication is taking place between two end systems.

S-268/DIT-04   P. T. O.

2. What are the various network topologies explain with example?

3. Write the HTML code to generate a Web Page in the format given below :

(i) Title of the page should be "Diploma in IT".

(ii) Background color should be "Yellow".

(iii) Text style of the main heading should be "Times New Roman" and color should be Green.

(iv) This web page must include one image as "dit.jpg".

(v) Table in the center of the webpage and should have a 3 pixel thick border of color red and the spacing between cell content and border is 10 pixels.

(vi) Use the concept of nested lists for creating the specified lists.

(vii) The bottom image and the text "DIT" are links to another page

(viii) Page must run one marquee as "Online admission".

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

   (b) Explain connection oriented and connection less services.

5. Write short notes on : Point-to-point network, Downloads and Cookies, Control structure in JavaScript, Token Ring, IPv4.

Section-B

(Short answer type questions)

Note: Section-B Contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only. (4×10=40)

1. Create a HTML document containing Java Script code that her a button called check out and when this button is clicked on, it directive two windows as

   Window 1: Have a question that tells user to input value of the item

   Window 2: Have a question that requests the user to input the amount of sales tax.

2. What is World Wide Web? What is the contribution of Java to the World Wide Web?

3. Explain Radio waves, Infrared and Microwave.

4. Write short notes on the following :

   (a) HTTP

   (b) Telnet

   (c) ISDN

   (d) ISP.

5. Write a detailed note on different types of operators available in Java Script.

6. Explain briefly about one-bit sliding window protocol.

7. What is HDLC? Discuss in detail.

8. Discuss how SMTP protocol is used in e-mail service.

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