C1033

Roll No. ....

MCS-E1

Web Technology

(MCA-20)

3rd Semester Examination, 2022 (June)

Time : 2 Hours]   **Max. Marks : 80**

Note : This paper is of Eighty (80) 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 (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

1. Answer the following :

   (a) What is HTML? What are its characteristics? Explain.

   (b) What are the different Support Elements of HTML?

(c) How will you migrate from HTML4 to HTML5? Explain.

(d) What is the difference between Static and Dynamic Websites? How Dynamic website is better than the Static web site? Explain.

2. Answer the following :

(a) Explain different Style Guide Media? Give proper syntax or example.

(b) What is Radio Button? When a user clicks on a radio-button, it becomes checked, and all other radio-buttons with equal name become unchecked. Explain.

(c) What is external style sheet? How size of a document using external style sheet is comparatively smaller? How its download time is smaller?

(d) How will you link a HTML file with CSS? What is the difference between ID and classes?

3. Answer the following: 5 marks each :

(a) What is extensible Markup Language? Proof that XML is a meta markup language for text documents / textual data.

(b) What is Java Script? How the HTML DOM can be accessed with JavaScript and with other programming languages?

(c) What is DOM tree? How will you traverse the DOM tree? Also describe relationships among Nodes.

(d) How the Cookie sent data from a web server to a web browser when the user visits a site on a server.

4. Answer the following :

(a) Why the JSP engine is required to process JSP pages? Also explain why it runs under the supervision of the servlet engine.

(b) What is JSP container? How the JSP container is responsible for intercepting requests for JSP pages.

(c) What is the use of jsp:include tag? The jsp include action tag tries to include the resources at the request time? Explain why.

5. Answer the following :

(a) What is tomcat server? What are the Steps to run a JSP program using tomcat server? Explain.

(b) How can we create a new Servlet? Write suitable program to create a new Servlet.

(c) What is the difference between doGet() and doPost() methods? Explain with help of example.

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. Answer the following:

   (a) What is the use of CSS? Also list find the difference between CSS and HTML ?

   (b) What do understand by the Responsive web design? What is the effect of responsive web design?

2. Answer the following :

   (a) What do you understand by Semantics? Explain the difference between Semantic and nonsemantic element? Give example.

   (b) What is Cascading Style sheet? CSS is a styling language that defines a set of rules to tell browsers how the webpage should look. Explain how.

3. Answer the following :

   (a) What is the difference between HTML and XML? How HTML is designed to structure data and XML?

   (b) What is Event handler? Explain the use of on Mouse Over and onMouseOut event? Explain with help of example.

4. Answer the following :

   (a) What is JavaScript Form Validation? How HTML form validation can be done by writing a script code using JavaScript?

   (b) What is Java Server Pages? How JSP used for Cross web server and Cross platform support?

5. Explain the overall view of the JSP Architecture? Also explain the JSP and its working functionalities.

6. Answer the following :

    (a) What is JDBC ? What are the basic steps to connect database ?

    (b) What are the different JDBC object classes? Explain each with help of example or proper syntax.

7. What is the difference between Page Context Object and Conpg Object? How Page Context object can be used also holds references to other implicit objects?

8. Answer the following :

    (a) What is Servlet in Java application? What is the function of doGet method of Servlet in Java?

    (b) What are passing Parameters. Explain with the help of Example.

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