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Reg. No. :

Question Paper Code : 90803

B.E/B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Fifth Semester

Information Technology

IT 8501 – WEB TECHNOLOGY

(Regulations 2017)

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the use of web server logs and list the contents of a message log.

2. Write HTML code to create the following table.

   W   X

   Y   Z

3. List the CSS Border Style properties.

4. Apply CSS to a web Page to paint the background as gray.

5. Differentiate Client Side Scripting from Server Side Scripting.

6. How is session tracking achieved by URL rewriting?

7. Write two basic differences between JSP and servlet.

8. Compare DOM and SAX in XML processing.

9. Identify the technologies used by AJAX.

10. State the significance of a WSDL document.

PART B — (5 × 13 = 65 marks)

11. (a) (i) Explain the purpose and way of creating lists in HTML documents. (7)

    (ii) Write and explain HTTP request message format. (6)

Or

   (b) (i) Explain HTML forms in detail along with form elements, attributes and methods. (6)

    (ii) Write an HTML document to provide a form that collect name and telephone numbers. Examine the basic XHTML syntax and semantics. (7)

12. (a) (i) Discuss the various aspects of Normal Flow Box Layout in the context of CSS. (6)

    (ii) Write the registration form for the creation of email account with all possible validations using JavaScript. (7)

Or

   (b) (i) Write JavaScript to find sum of first 'n' even numbers and display the result. Get the value of 'n' from user. (6)

    (ii) Discuss how do you use JavaScript for form validation? Develop a complete application that would include information functions to validate the user data. (7)

13. (a) Explain in detail DOM event handling. Also explain with an example of creating a context menu. [Note: A context menu is one that is shown when the user right-clicks anywhere in the document]. (13)

Or

   (b) (i) Write a servlet to illustrate the principle of Cookies and explain. (6)

    (ii) What is a session? Explain how client state is maintained using session and also explain about session tracking and session management using an example. (7)

14. (a) Explain in detail the XML schema, built in and user defined data type. Explain how XSLT transforms the document from one (Word) type to other type (HTML). (6+7)

Or

   (b) Write a Servlet program to display the waiting list status, given the PNR number of a train. Create a JSP to display the information at the client end. (6+7)

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15. (a) (i) Discover about the development of a web application to illustrate the basics of AJAX. (7)

    (ii) Develop a Java Web Service that would do arithmetic operations. (6)

Or

    (b) (i) Explain about the XML Http Request Object in detail. (6)

    (ii) Formulate the principles of WSDL, XML and SOAP and their interaction between them in web service applications. (7)

PART C — (1 × 15 = 15 marks)

16. (a) Design a railway reservation system using UDDI and WSDL for the following case study. Railway could register their services into an UDDI directory for checking the train rate and reservation. Travel agencies could then search the UDDI directory to find the railway reservation interface for ticket booking.

Or

    (b) Get the students' details like name, register number and mark using form. Generate DTD for this XML document. Name Regno Mark XYZ 1000 90 ABC 1001 80 RST 1002 89 PQR 1003 87 Generate the collected information in the descending order of marks using XSLT. Results should be displayed in the above format. Write a source code and explain the same.

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