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Question Paper Code : 70842

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2023.

Fifth/Sixth/Seventh Semester

Information Technology

IT 8501 – WEB TECHNOLOGY

(Common to: Artificial Intelligence and Data Science/Computer Science and
Business Systems)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the purpose of DNS protocol?
2. What are the various types of HTML links?
3. List the advantages of using CSS.
4. What do you mean by event handling in Java script?
5. What are the properties of HTML DOM?
6. What do mean by URL rewriting?
7. State the difference between Servlets and JSP.
8. Give the purpose of XSLT.
9. What is the advantage of using AJAX?
10. Define SOAP.

PART B — (5 × 13 = 65 marks)

11. (a) (i) Write briefly about web client and web server. (6)
(ii) Describe the working of HTTP protocol. (7)

Or

- (b) Create a static page to display a Company details using HTML List, Table and frames (13)
12. (a) Give examples for inline, internal and external style sheets. (13)

Or

- (b) (i) Explain the data types used in Java script. (6)
(ii) Write a Java script program to greet the user based on time. (7)

13. (a) (i) Write an example to illustrate the relationship between DOM node, child, and sibling. (6)
(ii) Explain the life cycle of a Servlet with neat diagram. (7)

Or

- (b) (i) Compare the features of GET and POST methods. (6)
(ii) Write a Servlet program to track a user session. Allow user to enter his details in the first page and when he navigates to the second page greet the user with the details entered in the first page. (7)

14. (a) (i) Explain in brief about JSP directive. (6)
(ii) Write an example for the usage of JSP Javabeans. (7)

Or

- (b) (i) Give example for usage of Internal and External DTDs in an XML File. (6)
(ii) Explain the procedure for validating the XML Documents. (7)

15. (a) Illustrate the working mechanism of AJAX with suitable example. (13)

Or

- (b) Describe the web service architecture and its components (13)

PART C — (1 × 15 = 15 marks)

16. (a) Create a HTML form to read User's Name, Age, Mobile No. and Email. Use Javascript code to perform empty field validation and validate Name, Age, Mobile No. and Email fields. Display the details using HTML table after validation. If validation failed, alert the user.

Or

- (b) Create a HTML form to read Student details such as Reg.No, Name, Department, and 5 subject marks. Use Servlets to read the form data and store the details in the database. User should be able to display a particular student detail along with total marks using the Reg.no.