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**Question Paper Code : 90423**

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

Sixth Semester

Computer Science and Engineering

CS 8651 — INTERNET PROGRAMMING

(Common to : Computer and Communication Engineering)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define World Wide Web.
2. What is the use of CSS3?
3. Define DOM.
4. Write the structure of JSON.
5. What is the use of JDBC?
6. What is Servlets? How is it different from normal web application?
7. Give different ways to validate a form.
8. What is Document Type Definition?
9. What is an Ajax call? Give example.
10. How Web Services are used? Give an example.

PART B — (5 × 13 = 65 marks)

11. (a) (i) What are the newly added features of HTML5 when compared with basic HTML? Explain the features with examples. (9)
- (ii) Write the structure of HTML request and response message. (4)

Or

- (b) (i) Illustrate in detail about the different types of CSS selectors used in internet programming? (9)
- (ii) Explain about Transitions and animations. (4)
12. (a) Describe the procedure for sending data from client side to server using Ajax without page reloading? Write a sample code for the same.

Or

- (b) Describe the procedure for creating a client-side image map using HTML5.
13. (a) Illustrate the life cycle of Java servlets with a schematic block diagram?

Or

- (b) Write a program in JSP to get username and password and to display the result. Use validation and exception handling wherever required.
14. (a) (i) What is the use of cookies? List its advantages and limitations. (5)
- (ii) Write a program using PHP to check whether the input to a function calculating factorial is valid ( $>0$ ) or not. (8)

Or

- (b) Illustrate the steps and procedure to connect the PHP to any database. Write a program of your own to demonstrate.
15. (a) Explain the process of creating web services using Java.

Or

- (b) Describe the procedure about WSDL binding with SOAP? Explain major differences between SOAP and WSDL?

PART C — (1 × 15 = 15 marks)

16. (a) Elaborate in detail about ajax client-server architecture with appropriate example.

Or

- (b) Explain the following with appropriate examples.
- (i) XML parsers and validation.
- (ii) XSL and XSLT transformation.
- (iii) RSS and ATOM.