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Question Paper Code : 10459

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2025.

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 the role of web crawler. Compare with web server.
2. Write appropriate inline CSS to show a section of the HTML document with a font size of 22.
3. Give the purpose of JavaScript. Write a JavaScript program to display “welcome” message with your name on the browser window.
4. What is JSON? Is it platform dependent? Justify.
5. Compare GET and POST request type.
6. List any three advantages of Java servlet over JSP.
7. When should the super global arrays in PHP be used? Which super global array in PHP would contain a HTML form’s POST data?
8. Identify why XSLT is an important tool for development of web applications.
9. Brief about asynchronous nature of AJAX.
10. What are the elements of WSDL?

PART B — (5 × 13 = 65 marks)

11. (a) (i) Compose a note about the following RIA technologies
- (1) AJAX and Flex (4)
 - (2) Silverlight and JavaFx (4)
- (ii) Create a form in HTML5 to create the list of grocery for the specific month from the overall list in the website. Create using forms, labels, text boxes, lists. Allow the user to enter his details to get the grocery delivered to his house. (5)

Or

- (b) Construct the HTML5 code for creating a feedback form as shown in Fig 1. Include comments in code to highlight the markup elements and its purpose. The HTML form should use POST for submitting the form to a program ProcessContactForm.php.

The figure shows a feedback form with the following fields and a submit button:

- Name* (required field)
- Email Address* (required field)
- Telephone
- Enquiry* (required field)
- Message* (required field)
- Submit

Fig 1

*indicates a required field.

12. (a) (i) Analyze the merits and demerits of DOM parser with neat example. (6)
- (ii) Create a form in HTML5 to create the list of grocery for the specific month from the overall list in the website. Create using forms, labels, text boxes, lists the grocery item should be added to the monthly list only if the quality and specification exists. At the end, the user card details should be validated. (7)

Or

- (b) (i) Create a web page using the details given below. The first pane (on left) should have a text area where HTML code can be typed by the user. The pane on the right side should display the preview of the HTML code typed by the user, as it would be seen on the browser. (8)
- (ii) Formulate a JavaScript program that work with JSON. (5)

13. (a) (i) Explain about the life cycle of servlets. (6)
(ii) Demonstrate the Servlet architecture and explain its working principle. (7)

Or

- (b) Consider a database that has a table "Employee" with two columns "Employee Id" and "Name". Write a JDBC program that can query and print all entries in the table "Employee". Elaborate the steps of doing this activity.

14. (a) (i) Demonstrate with suitable example about SQL and XML tags in JSTL. (6)
(ii) Develop a JSP program to display the grade of a student by accepting the marks of five subjects. Assume grading criteria. (7)

Or

- (b) (i) Write a PHP program that tests whether an email address is given correctly. Test your program with both valid and invalid email addresses. (7)
(ii) List out the various activities involved in MySQL and PHP connectivity. (6)

15. (a) (i) Explain the Client-server architecture of Ajax with a neat diagram. (7)
(ii) Explain XMLHttpRequest object with example. (6)

Or

- (b) (i) Explain the working of SOAP with an example. (7)
(ii) Illustrate about the web services for writing web service client along with the description of WSDL. (6)

PART C — (1 × 15 = 15 marks)

16. (a) (i) Compare and contrast the additional web application architecture and AJAX Based web application architecture. (8)
(ii) Identify the significant differences between DID and XML schema for defining XML document structures with appropriate examples. (7)

Or

- (b) Create a web application for online movie ticket reservation system with the following features.
- (i) Create a customer registration form and a sign-in form. (5)
 - (ii) Customer can check the availability of the tickets and do reservation two days earlier to the show. (Skip the online payment processing for simplicity.) (5)
- The application should be a three tier architecture with HTML as a user interface design, PHP as middleware and MySQL as a backend. (5)