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Question Paper Code : 57252

03/06/16
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B.E/B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Fifth Semester

Computer Science and Engineering

CS 6501 – INTERNET PROGRAMMING

(Regulations 2013)

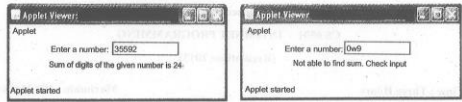Time : Three Hours　　　　　　　　　　　　　　　　　　Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. Give at least 3 differences between overriding and overloading of methods in Java.

2. Give an example for a chained exception in Java.

3. How does a Rich Internet Application (RIA) differ from a traditional web application ?

4. Write appropriate inline CSS to show a section of the HTML document with a font size of 20.

5. Write appropriate Javascript code to remove an element (current element) from a DOM.

6. Write the code segment to store current server time in session using Java servlet API.

7. Why is XSLT an important tool in development of web applications ?

8. When should the super global arrays in PHP be used? Which super global array in PHP would contain a HTML form's POST data ?

9. Draw the structure of a SOAP message.

10. What is the role of a callback function in performing a partial page update in an AJAX application ?

PART – B (5 × 16 = 80 Marks)

11. (a) Consider a scenario where one thread (producer) is producing integer data starting from 0 and another thread (consumer) consuming it. In addition, assume that the producer has to wait until the consumer is finished consuming before it generates more data. Using Java's interprocess communication mechanism, implement the above producer and consumer.

OR

(b) Write a Java program to find the sum of the digits of a given number. Create a Swing GUI to get an input number and show the sum of its digits as shown below. In case the sum cannot be found due to incorrect input, the applet should print "Not able to find sum. Check input".

12. (a) Write a brief note on each one of the following RIA technologies :
    • AJAX
    • Flex
    • Silverlight
    • JavaFX

OR

(b) Write the HTML 5 code for creating a feedback form as shown below. Include comments in code to highlight the markup elements and their purpose. The HTML form should use POST for submitting the form to a program ProcessContactForm.php.

Internet Programming

Contact form

Name*　　[　　　　　　]

EmailAddress*　　[　　　　　　]

Telephone　　[　　　　　　]

Enquiry*　　[General　　]

Message*　　[Your message must be greater than 20 characters]

　　　　　　[Hello!]

*indicates a required field

13. (a) Use Javascript and HTML to create a page with two panes. The first pane (on the 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.　　(16)

OR

(b) Assume that a database has a table **Employee** with two columns **EmployeeID** and **Name**. Assume that the administrator user id and password to access the database table are, **scott** and **tiger**. Write a JDBC program that can query and print all the entries in the table Employee. Make the database connection using a type2 driver **database.driver** and connection string **jdbc:db:oci**.　　(16)

14. (a) Create a Webserver based chat application using PHP. The application should provide the following functions　　(16)
    • Login
    • Send message (to one or more contacts)
    • Receive messages (from one or more contacts)
    • Add / delete / modify contact list of the user
    Discuss the application's user interface and use comments in PHP to explain the code clearly.

OR

(b) (i) List the essential features of XML parsers.　　(8×2)
    (ii) List at least five significant differences between DID and XML schema for defining XML document structures with appropriate examples.

15. (a) Compare and contrast the traditional web application architecture and AJAX based web application architecture.　　(16)

OR

(b) Describe the structure of a WSDL document, its elements and their purposes with appropriate examples.　　(16)

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