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**Question Paper Code : 51764**

**B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016**

**Sixth Semester**

**Computer Science and Engineering**

**IT 2353/IT 63/10144 IT 604/10144 CS 802 — WEB TECHNOLOGY**

**(Common to Information Technology)**

**(Regulations 2008/2010)**

**(Common to PTIT 2353/10144 CS 802 – Web Technology for B.E. (Part-Time). Fourth Semester, Computer Science and Engineering – Regulations 2009/2010)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A (10 × 2 = 20 Marks)**

1. List the seven types of HTTP request methods.
2. What are the types of URL ? How do they differ ?
3. Write a style rule to place a frame around an image element.
4. List the data types in Javascript.
5. List the method properties and non-method properties of a node.
6. State the important methods in servlet life cycle and their function.
7. What is XPath ?
8. List the JSP page directive attributes.
9. What is serializable object ?
10. Compare simple and complex data types in XML schema.

**PART – B (5 × 16 = 80 Marks)**

11. (a) (i) Briefly discuss about the various fields in HTTP response message. (8)
- (ii) Discuss the features of web clients and servers and explain how they communicate using HTTP. (8)

**OR**

- (b) Create an order information form for an online shopping website, as specified below.
- Request billing and shipping information (Name, address and Zip)
  - Credit card information provided with a menu to select from a list of cards (3 options), card number and expiration date.
  - Contact information (Email and phone number)
  - A "Send information about other products" option with a checkbox.
  - Submit and reset buttons with get method of form submission and empty string for action.

All form controls should have proper name attributes and be well aligned. Ensure that the page conforms to XHTML 1.0 strict standard and validate the page. (16)

12. (a) With suitable example discuss the following :
- CSS selectors
  - Style inheritance
  - Box model style properties
  - Positioning
- (16)

**OR**

- (b) (i) Briefly discuss about arrays in Javascript. (8)
- (ii) Write a Javascript program that generates a math problem involving 4 operands and three arithmetic operators. Display the problem in a prompt box and allow user to enter an integer to represent the value of the problem. Use eval() function to check the answer and display the result as "Correct / Wrong Answer" (8)

13. (a) With suitable example illustrate how mouse events are handled in DOM. (16)

**OR**

- (b) (i) Explain how session is established and managed by a servlet. (8)  
(ii) Briefly discuss about servlets and concurrency. (8)

14. (a) Briefly discuss about  
(i) DOM based XML parsing  
(ii) Transforming XML documents (16)

**OR**

- (b) (i) Briefly discuss about JavaBeans and JSP. (8)  
(ii) Explain how JSP features are used in a MVC structures web application to receive and handle a HTTP request. (8)

15. (a) (i) Explain how struct data and arrays are encoded in SOAP. (8)  
(ii) Briefly discuss about WSDL. (8)

**OR**

- (b) With suitable example explain the steps involved in creating a Java web service. (16)