

Register Number:

B.E./B.TECH DEGREE EXAMINATIONS: NOV/DEC 2012

Seventh Semester

ITY114: WEB TECHNOLOGY

(Common to Computer Science and Engineering and Information Technology)

Time: Three Hours

Maximum Marks: 100

**Answer all the Questions:-
PART A (10 x 1 = 10 Marks)**

1. The standard to pass all type of information over internet is
 - a) UDP
 - b) FTP
 - c) MIME
 - d) TCP
2. Several browser windows opened within a single window is achieved in
 - a) forms
 - b) frames
 - c) Tables
 - d) links
3. Arrays can be created in JavaScript as follows:
 - a) `var a1=new Array()`
 - b) `var a2=new Array(1,true,"yes")`
 - c) `var a3=[2,false,"no"]`
 - d) All of the above
4. The data about the HTML document can be found in
 - a) `<meta>` tag
 - b) `<title>` tag
 - c) `<head>` tag
 - d) `<body>` tag
5. In an XML document, the element types and attribute names constitute
 - a) application
 - b) vocabulary
 - c) semantics
 - d) None of the above
6. The encoding format in XML documents
 - a) UTF
 - b) Hamming
 - c) CRC
 - d) Runlength
7. The functionality of a JSP is achieved in
 - a) Page bean
 - b) JavaScript
 - c) AJAX
 - d) All of the above
8. The protocol to transport web service requests over the Internet
 - a) TCP
 - b) FTP
 - c) HTTP
 - d) None of the above
9. Client-side scripts
 - a) Access the browser
 - b) Use browser specific features
 - c) Manipulate browser documents
 - d) All of the above

10. A control which ensures that the data in another control is in correct format is called
- a) verifier
 - b) validator
 - c) Purifier
 - d) tester

PART B (10 x 2 = 20 Marks)

- 11. Who is a web client? Justify.
- 12. How relative positioning is attained in a style sheet element?
- 13. What is a scripting language?
- 14. What is DOM?
- 15. What is the significance of XML DTD?
- 16. What is XPath?
- 17. Define a cookie.
- 18. Give the importance of SOAP in a web service.
- 19. What is the difference between GET and POST methods in a HTTP request?
- 20. What is the significance of an URL?

PART C (5 x 14 = 70 Marks)

21. a) (i) Explain the various HTML form elements. (7)
- (ii) Create a HTML document that gathers information for an online product ordering system. Use necessary form elements and proper selections. There should be default values for the elements. Use POST method for form submission and specify the empty string for the action. (7)

(OR)

- b) (i) Explain different types of Cascading Style Sheets. (7)
- (ii) Create a style sheet with the specifications: (7)

Use 'sky' background for all pages. Make table captions bold face, and table headers normal weight but italicized. Use 14pt sans serif font for td elements. Change the style of the bullets.

Apply it to any HTML page using all types of CSS.

22. a) Write a JavaScript program that validates the various form elements in the registration form for email subscription. The form should contain all the basic controls and 'submit', 'cancel' options.

(OR)

- b) (i) Explain event handling in JavaScript programs. (7)

(ii) How to detect host objects? (7)

23. a) Explain DOM and SAX based XML processing with suitable illustration.

(OR)

b) (i) Give a brief outline of the XSLT processing algorithm. (7)

(ii) How to display XML Documents in Browsers? (7)

24. a) (i) Explain various Java Web Technologies. (7)

(ii) Develop the following in any one of the above web technologies. (7)

Consider a web page with a form consisting of student details for registering in a library. Allow the student to register himself by adding his data into the library database. Display a welcome message after registration. Write the necessary code for registration, storing in the database, confirmation.

(OR)

b) How to create Java Web Services? Explain session tracking with an example.

25. a) Describe the features of IIS and Apache Servers. Explain their configuration in any one operating system.

(OR)

b) Explain the commonly used web controls in ASP.NET.
