Reg. No. :

Question Paper Code: 41863

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Sixth Semester

Information Technology

14UIT603 - WEB TECHNOLOGY

(Regulation 2014)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. A _____ is software that accesses a web server by sending an HTTP request message and processing the resulting HTTP response.

   (a) Internet Protocol   (b) Domain Name Service
   (c) Web Client   (d) Wide Area Information System

2. The primary web server log recording normal activity is an

   (a) Message Log   (b) Access Log
   (c) Common Log   (d) Normal Log

3. The key property of _____ is used to separate the presentation of information from the information content and semantic tagging.

   (a) Client side scripting   (b) Server side scripting
   (c) Cascading Style Sheet   (d) Extensible Mark-up Language

4. Strings of characters that directly represent value in language is called as

   (a) Variables   (b) Data types
   (c) Literals   (d) Operators

5. _____ method returns fully qualified name of the client making the request.

   (a) getRemoteHost( )   (b) getProtocol( )
   (c) isSecure( )   (d) getRequestURL( )

6. _____ is the Java VM's abstract representation of the processing to be performed to accomplish a particular task, possibly concurrently with other tasks.

    (a) Servlet   (b) Process   (c) Task   (d) Thread

7. _____ can be thought of as a general means of representing any sort of structured data.

    (a) AJAX   (b) PHP   (c) XML   (d)JSP

8. JSP _____ element is used to include a fragment of Java code that is embedded within the JSP document.

    (a) directive.page   (b) scriptlet   (c) output   (d) set

9. The primary role of the _____ is to locate, load, and manage .NET objects on behalf of programmer.

    (a) CLS   (b) CLR   (c) CTS   (d) .Net

10. _____ describes in vivid detail the characteristics of every "type" within the .Net binary files.

    (a) Manifest   (b) Library   (c)Metadata   (d) Assembly

PART - B (5 x 2 = 10 Marks)

11. Define communication protocol.

12. Sketch the parts of single rule set-type style rule.

13. State any two difference between cookies and session.

14. Specify any two type of information provided by every valid JSP document.

15. What is meant by .Net aware programming language?

PART - C (5 x 16 = 80 Marks)

16. (a) (i) Provide a code instruction to create a HTML based web page for a student registration with basic features such as forms, list and tables.   (8)

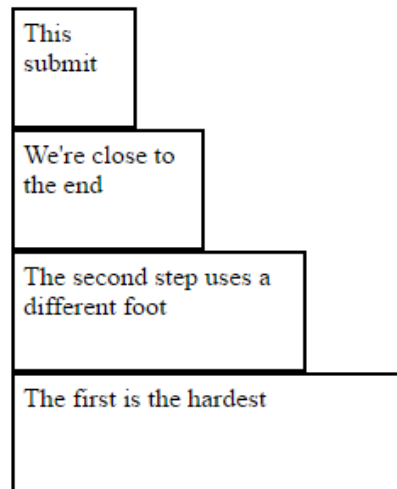   (ii) Derive any four HTML fundamental elements with relative example.   (8)

Or

(b) Emphasis various constructs of HTTP request message and HTTP response message.   (16)

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17. (a) (i) Write a Java script program to create an array which stores the fruits name such as {"Orange", "Banana", "Apple"} and create show_array( ) function to display the same using alert box. Also sort the fruits name in ascending order using build in array method and display the same using show_array( ) function (8)

(ii) Paraphrase the significance of CSS box model that relate to the boxes that a browser render corresponding to the elements in HTML document. (8)

Or

(b) Create an HTML document and CSS style sheet that together produce the stair step effect shown in below figure. The left sides of the steps should line up in the middle of the document, regardless of the width of the browser window. Also, each step should have the same height as all other steps, regardless of the number of lines of text contained in the step. (16)

18. (a) Synthesis the DOM support for document tree access and modification within a browser that has loaded a HTML document. (16)

Or

(b) Illustrate the high level web server–servlet interaction architecture with neat diagram. (16)

19. (a) Design a simple Login form application using JSP. Read the login credentials (username and password) in Login.html. Validated the login credentials using Login Check.jsp. If correct username and password given then navigate to Home.html else navigate to Error.html. (16)

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(b) (i) Write in detail about various constructs involved in selecting XML data using XPath. (10)

(ii) How to perform JAXP transformations between XML representations such as text, DOM, SAX event. (6)

20. (a) Elaborate the significance of CTS, CLS, CLR in .Net framework. (16)

Or

(b) (i) Explain the role of .Net base class libraries with neat diagram. (8)

(ii) Provide the steps involved in deploying .Net. (8)

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