G 483 (Pages : 2) Reg. No.....

Name.....

SAINTGITS COLLEGE OF ENGINEERING LIBRARY KOTTAYAM

B.TECH. DEGREE EXAMINATION, MAY 2014

Sixth Semester

Branch : Computer Science and Engineering/Information Technology

NETWORK COMPUTING (R, T)

(Old Scheme—Supplementary/Mercy Chance)

[Prior to 2010 Admissions]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 4 *marks.*

1. Differentiate between <SPAN> and <DIV> tags.
2. Explain the usage of FRAME attribute of the <TABLE> tag.
3. Give a sample code illustrating how to embed Active X contents in an HTML document.
4. What is DOM ? Explain the need for DOM.
5. Discuss the means for thread synchronization.
6. How do you set a thread's priority ? Explain.
7. Explain the life-cycle of an Applet.
8. Give a sample Applet code and show how you include it in an HTML page.
9. What are the limitations with CGI programs when compared to traditional application programs ?
10. Explain the purpose of the following four HTTP methods — GET, PUT, POST and HEAD.

(10 × 4 = 40 marks)

Part B

Answer **all** *questions.*
Each full question carries 12 *marks.*

11. (a) What are the advantages of using frames ? Give an HTML code for a scrollable and resizable frame with *frameborder* and *framespacing* attributes set.

(6 marks)

(b) Give a HTML code fragment for creating a 3 × 3 table with column headers. Also give the purpose of each of the following tags : <caption>, <colgroup>, <col/>, <thread>, <tbody>, <tfoot>.

(6 marks)

Or

Turn over

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12. (a) Explain how you link an external style sheet to an HTML document. How do you inline a style ?

(6 marks)

(b) Explain how one can embed a style sheet in an HTML document. Also explain how a style sheet can be imported into a document.

(6 marks)

13. (a) Write a Javas cript program that reads in two integers and displays whether the first is a multiple of the second.

(6 marks)

(b) Write a Java script function that takes an integer and reverses its digits and returns. Incorporate this function into a script that reads an integer from the user. Display the result of the function in status bar.

(6 marks)

Or

14. Implement Java script functions to perform Linear Search and Binary Search on an array of integers.

15. (a) Explain the properties of final classes and final methods. Demonstrate their usage.

(4 marks)

(b) Differentiate between static variables and final variables. Demonstrate their usage.

(4 marks)

(c) Explain how the effect of multiple inheritance can be achieved in Java programs.

(4 marks)

Or

16. Explain the purpose and usage of the keywords **try**, **catch, throw, throws** and **finally**, giving program fragments. What happens when an exception is uncaught ?

17. Give and explain a simple UDP client program and a corresponding server program.

Or

18. What are factory methods ? Give three commonly used **InetAddress** factory methods. Also give a sample code to illustrate the use of these methods.

19. Give a simple CGI program in C to validate username and password, and explain its working.

Or

20. Explain the working of HTTP protocol. Differentiate between Persistent and Non-persistent HTTP.

[5 × 12 = 60 marks]