E 8232

M.C.A. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Fourth Semester

CA 241 — INTERNET PROGRAMMING AND TOOLS

Time : Three hours   Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1.   Mention any two types of special addresses in Internet addressing and their purpose.

2.   Mention any two characteristic features of the TCP/IP Internet.

3.   What is meant by a browser plug in? What is its function?

4.   Write a HTML document to display two headings in two different font sizes.

5.   What is an event handler? Mention one of its common use?

6.   Explain absolute positioning of components in a web page with an example.

7.   What is an interface? How does it differ from an abstract class?

8.   What is meant by synchronisation? What is its need?

9.   Mention any two advantages of servlets over CGI programs.

10. Draw the two-tier configuration for using JDBC and explain.

PART B — (5 × 16 = 80 marks)

11. (i)   List the steps in resolving names into addresses.   (8)

     (ii) Illustrate the domain hierarchy and name server hierarchy, with an example.   (8)

12. (a) (i) Write and explain the various tags used to construct a frame with suitable example. (8)

(ii) Write HTML documents to illustration block quotations and images. (8)

Or

(b) (i) Illustrate the principles of HTML validation system and its features. (8)

(ii) Describe the overview of WWW and the actions of a browser when a hyperlink is clicked. (8)

13. (a) Write a Javascript which has an array of names in alphabetical order. It should get new names, one at a time, using prompt and insert them into the existing array. After every insertion, the resulting array should be displayed. Insert comments and explain.

Or

(b) (i) What is meant by the Document Object Model and DOM tree? Illustrate with an example. (8)

(ii) Illustrate style sheet levels and their applications. (8)

14. (a) (i) Explain the methods of creating threads in Java and compare them. (10)

(ii) What is a datagram socket? How is it created? What are its uses? (6)

Or

(b) (i) Write a Java applet that uses a specific font, style and size to display a string. (8)

(ii) Write a Java program to illustrate the concept of method overriding. (8)

15. (a) Illustrate the mechanisms for using JDBC to perform simple SQL operations on existing databases. (16)

Or

(b) Illustrate, with an example, the principles of Remote Method Invocation using Java. (16)

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