B.Sc. (Part–I) Semester–II Examination

2S : COMPUTER SCIENCE/COMPUTER APPLICATION/INFORMATION TECHNOLOGY

(New)

(Web Technology and Advanced Programming in C)

Time : Three Hours]   [Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Question No. **1** carries **8** marks and all other questions carry **12** marks each.

(3) Assume suitable data wherever necessary.

1. (A) Fill in the blanks :—

    (i) _____ tag is used to italics the text.

    (ii) The extension of stylesheet file is _____ .

    (iii) A function can call itself. This phenomenon is called as _____.

    (iv) A _____ is an array of characters.   2

   (B) Choose correct alternative :

    (i) XML stands for :

        (a) Exchange Markup Language   (b) Extensible Markup Language

        (c) Xerox Markup Language   (d) None of these

    (ii) PC DATA stands for :

        (a) Pointer char data   (b) Parameter char data

        (c) Parsed character data   (d) None of these

    (iii) _____ is a group of homogeneous elements.

        (a) Structure   (b) Union

        (c) File   (d) Array

    (iv) Which of the following string function is used to find length of string ?

        (a) length( )   (b) string length( )

        (c) strlen( )   (d) All of these   2

   (C) Answer in **ONE** sentence each :—

    (i) What is unordered list ?

    (ii) What is the use of stylesheet ?

    (iii) What is a function prototype ?

    (iv) How member variable of structure is accessed ?   4

YBC—15243   1   (Contd.)

2. (a) Explain the history of 6

   (b) Explain the following tags with example :

   (i) <MARQUEE>

   (ii) <HR>

   (iii) <BLOCKQUOTE>   6

<div align="center">OR</div>

3. (a) Explain <IMG> tag with all its attributes.   6

   (b) Write HTML code for following output :

Programming Languages		
OOP'S		C++
		Java
Web Designing		HTML
		XML
		CSS

                                                                              6

4. (a) Explain the types of stylesheet with example.   6

   (b) Explain Text properties of CSS with example.   6

<div align="center">OR</div>

5. (a) Explain the display and border properties of stylesheet.   6

   (b) Explain the various applications and advantages of stylesheet.   6

6. (a) What is DTD ? Explain the use of DTD with suitable example.   6

   (b) State and explain the features of XML.   6

<div align="center">OR</div>

7. (a) Explain various content models used in DTD with suitable examples.   6

   (b) Explain the components of XML document with example.   6

8. (a) What is array ? Explain the declaration and initialization of two dimensional array with example.   6

   (b) Explain the declaration and initialization of pointers with example.   6

<div align="center">OR</div>

9. (a) Write a program in C for addition of two matrix.   6

   (b) Explain the following functions with example :

   (i) strcpy( )

   (ii) strcmp( )

   (iii) strcat( )   6

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10. (a) What is function ? Explain www.FirstRanker.com functions www.FirstRanker.com example.

    example.   6

    (b) Explain the following terms :—

    (i)   Local variable

    (ii) Global variable

    (iii) Actual parameter

    (iv) Formal parameter.   6

OR

11. (a) What is function recursion ? Write a recursive function to calculate factorial of given number.   6

    (b) Explain call by value and call by reference with example.   6

12. (a) What is a structure ? Explain the declaration of structure with example.   6

    (b) Explain various operations performed on files with example.   6

OR

13. (a) Explain the differences between structure and union with example.   6

    (b) Explain the following with example :

    (i)   fread( )

    (ii) fwrite( )

    (iii) fprintf( )   6