

**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

(b) Explain the following tags with example :

(i) <MARQUEE>

(ii) <HR>

(iii) <BLOCKQUOTE>

6

OR

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

OR

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

OR

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

OR

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

10. (a) What is function ? Explain the functions with suitable 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

