

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

2. (a) Explain the history of markup languages. 6
 (b) Explain the following tags with example :
 (i) <MARQUEE>
 (ii) <HR>
 (iii) <BLOCKQUOTE> 6

OR

3. (a) Explain tag with all its attributes. 6
 (b) Write HTML code for following output :

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

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, how user defined functions are declared. Give 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

