AU–68

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

N.B. :— (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)　The <TITLE> tag is always placed inside _____ tag.

(ii)　CSS stands for _____ .

(iii)　An _____ is a group of homogeneous elements.

(iv)　By default the function returns _____ value.　　　　　　　　2

(b)　Choose the correct alternatives :

(i)　_____ tag is used to specify the background of the document.

(a)　<BODY>　　　　　　　　　(b)　<FONT>

(c)　<HEAD>　　　　　　　　　(d)　<TITLE>

(ii)　What does DTD stand for :

(a)　Dynamic Type Definition　　(b)　Direct Type Definition

(c)　Document Type Definition　　(d)　None of these

(iii)　The function defined by the user is called :

(a)　Standard function　　　　　(b)　Library function

(c)　User defined function　　　　(d)　Both (a) and (c)

(iv)　Which of the following string functions is used to compare two strings ?

(a)　stringcmp ( )　　　　　　　(b)　strcmp ( )

(c)　strcat ( )　　　　　　　　　(d)　strcpy ( )　　　　　　　　2

    (c)   Answer in **one** sentence each :

        (i)   What is HTML ?

        (ii)   What do you mean by valid XML document ?

        (iii) What is array ?

        (iv) What is structure ?   4

2.   (a)   Explain the structure of HTML document with example.   6

    (b)   Explain the ordered and unordered list with suitable example.   6

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

3.   (a)   Explain the history of markup languages.   6

    (b)   Explain the following tags with example :

        (i)   <IMG>

        (ii)   <LINK>

        (iii) <A>.   6

4.   (a)   What is stylesheet ? Explain applications of stylesheet with example.   6

    (b)   Explain the font properties of stylesheet.   6

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

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

    (b)   Explain the internal and external stylesheet with example.   6

6.   (a)   Explain the following :

        (i)   Document prolog

        (ii)   Document instance.   6

    (b)   Explain how attributes are declared in DTD.   6

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

7.   (a)   Explain the logical structure of XML element with example.   6

    (b)   Explain differences between internal and external DTD with example.   6

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

(b) Explain pointer increments and scale factor with example. 6

OR

9. (a) Write a program in C using pointers to calculate the sum of elements stored in an array. 6

(b) What is string ? Explain the declaration and initialization of string variable with example. 6

10. (a) Explain the syntax structure of user defined function with example. 6

(b) Explain passing of array elements to the function with example. 6

OR

11. (a) Explain the function with arguments and return values with example. 6

(b) Explain function recursion with suitable example. 6

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

(b) Explain the following with example :

(i) fgetc ( )

(ii) fputc ( )

(iii) fgets ( )

(iv) fputs ( ). 6

OR

13. (a) What is structure ? Explain the accessing of structure variable with example. 6

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