

B.Sc. (Part-I) (Semester-II) Examination
COMPUTER SCI./COMPUTER APPLI./INFORMATION TECH. (NEW)
(Web Technology and Advanced Programming in C)

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Question 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 break a line.
- (ii) _____ tag is used to link the style sheet.
- (iii) _____ statement returns result to the calling program.
- (iv) String is a collection of _____.

2

(B) Choose the correct alternative :

- (i) To horizontal line on web document _____ tag is used.
 - (a) <HR>
 - (b) <HM>
 - (c) <HL>
 - (d) <SL>
- (ii) The extension of style sheet file is _____.
 - (a) .html
 - (b) .txt
 - (c) .css
 - (d) .style
- (iii) The member variable of structure are accessed by using _____.
 - (a) Asterisk (*) operator
 - (b) Arrow(→) operator
 - (c) Ampersand (&) operator
 - (d) Dot (.) operator
- (iv) The fopen () opens file with the help of _____.
 - (a) char pointer
 - (b) int pointer
 - (c) file pointer
 - (d) none of the above

2

(C) Answer in one sentence each :-

- (i) What is ordered list?
- (ii) What is table?
- (iii) What is nested structure?
- (iv) What is file?

4

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

6

(b) What is hyperlink? Explain linking of document with example.

6

OR

3. (a) Explain the following tags with example :

- (i)
- (ii) <MARQUEE>
- (iii) <BLOCKQUOTE>

6

(b) Write a HTML code for the following output.

Indian Cricket Team :

(1) Virat Kohli

(2) Shikhar Dhawan

(3) Rohit Sharma

(4) Murali Vijay

(5) Ravindra Jadeja.

6

4. (a) What is style sheet? What are the various advantages of style sheet? 6

(b) Explain the following properties of CSS with example :

(i) Text

(ii) Font.

6

OR

5. (a) Explain the types of style sheet with example. 6

(b) Explain the border and background properties of CSS. 6

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

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

OR

7. (a) What are the features of XML? Explain. 6

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

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

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

OR

9. (a) Write a C program to find the sum and average of n array elements. 6

(b) Explain the following functions with example.

(i) strcpy ()

(ii) strcmp ()

(iii) strlen ()

6

10. (a) What is function? Explain the need of user defined function with example. 6

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

OR

11. (a) Explain function prototype with example. 6

(b) What is function recursion? Write a program in C to calculate factorial of given number using function recursion. 6

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

(b) Explain file operation modes in C. 6

OR

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

(b) Explain the following with example :

(i) fscanf ()

(ii) fprintf ()

6