



Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)

Re-accredited with A++ Grade by NAAC. Recognised by UGC Under Section 12B

Coimbatore - 641 043, Tamil Nadu, India

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Continuous Internal Assessment Test I – August 2025

Semester I

Class : I B.Sc

Time : 2 Hrs

Major : Information Technology

Max Marks : 60

23BITC04 C Programming

Course Outcomes:

CO 1: Read, understand and trace the C program execution.

CO 2: Implement programs using arrays and strings

CO 3: Extend the C programming through functions, structures and arguments

Part A

6 x 1=6

Choose the Correct Answer

1. Which of the following is a valid C variable name? CO1K3
a. int b. float c. char d. total_mark
2. What will be the output of the following code? CO1K3

```
int x = 10;  
if (x != 10)  
    printf("Ten");  
else  
    printf("Not Ten");
```


a. 10 b. Ten c. Not Ten d. Error
3. Which of the following functions is used to concatenate two strings in C? CO2K1
a. stradd() b. strcat() c. strjoin() d. strappend()
4. An _____ is a collection of similar data items stored in contiguous memory location CO2K4
a. string b. array c. char d. enum
5. A function which calls itself is called a _____ function CO3K2
a. self b. auto c. static d. recursive
6. How many values can a C Function return at a time.? CO3 K3
a. One b. two c. four d. many

Part B

3 x 6 = 18

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 7.a. Discover the Basic Structure of C Program CO1 K1
(or)
b. Explain about various Operators used in C Language CO1 K2
- 8.a. Illustrate one Dimensional Array with examples CO2 K2
(or)
b. Examine String Concatenation with C Program example CO2 K3
- 9.a. Predict Nesting of functions with program example CO3 K3
(or)
b. Explain Recursion of Functions with Program example CO3 K3

Part C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. a. List and Explain Decision Making Statement in detail with example. CO1 K2
(or)
b. Explain different types of looping Structure detail with example CO1 K2
11. a. Write a c program to add two matrices using two dimensional array CO2 K1
(or)
b. Explain various string handling functions in C with syntax and examples. CO2 K5
12. a. Demonstrate Category of user defined Functions with Programs CO3 K3
(or)
b. Translate Functions with Arrays by examples CO3 K2
