



Mulleruk.

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. Recognized by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment - I August 2024

I Semester

Class: I UG

Major: Computer Science

Time: 2 hours

Max.Marks:60

23BCSC01 Programming Methodology

Course Outcomes:

1. Obtain knowledge to design algorithms and draw flowcharts to solve a problem.
2. Develop problem solving skills coupled with top-down design principles.
3. Acquire knowledge to implement different Operations on arrays.
4. Trained skill to solve problems through programming for simple applications.
5. Understand the use of Arrays, functions, pointers, structures and unions.

Part A

6x1 = 6

Choose the Correct Answer

1. The _____ provides pictorial representation of given problem. CO1K1
a. Algorithm b. Flowchart c. Pseudocode d. Coding
2. A variable is CO1K1
a. A named storage location for data. b. A fixed value that cannot be changed
c. A set of instructions d. A type of computer hardware
3. What is the purpose of the return statement in a function? CO2K1
a. To terminate the function. b. To pass values back to the calling function.
c. To define function parameters d. To declare the function return type
4. What is the output of (5>3)? CO2K1
a. 0 b. 1 c. True d. False
5. What is the output of the program below? CO2K4

```
#include <stdio.h>
int main() {
    int i;
    for (i = 0; i < 3; i++)
    {
        printf("%d ", i);
    }
    return 0;
}
```


a. 0 1 2 b. 1 2 3 c. 0 1 2 3 d. Error
6. Which of the following syntax to declare an array of 5 integers named numbers? CO2K4
a. int numbers[5]; b. int numbers(5); c. int 5 [numbers]; d. int numbers = 5;

Part- B

3x6=18

Answer ALL Questions

Each answer should not exceed 400 words or two pages

7. a. Write an algorithm and draw flowchart to check a given number is an Even or Odd. CO1K3
(or)
7. b. Write the basic Structure of C program. CO1K1
8. a. What is a string? Explain any three string functions. CO3K1
(or)
8. b. What are the three types of translators? Explain. CO2K2
9. a. Explain Recursion with an example. CO2K1
(or)
9. b. How to create an array and access elements from it? Explain. CO3K1

Part-C

3x12=36

Answer ALL questions

Each answer should not exceed 800 words or four pages

10. a. Explain Input and Output statement with an example. CO1K2
(or)
10. b. Explain the various Looping statements in C with an example. CO1K2
11. a. Explain function with call by value and call by reference method. CO1K2
(or)
11. b. Explain the various categories of functions in c CO2K2
12. a. Write a C program to sort the numbers in an ascending order using one dimensional array. CO3K3
(or)
12. b. Explain the syntax of while and do-while statements. CO3K2

Campus-I- 65

Campus-II- 65