K25FY4337 Pages: 2 Reg No:.....
Name:.....

First Semester FYUGP Degree (Reg/Sup) Examination November 2025

KU1DSCCSC101 - FUNDAMENTALS OF PROGRAMMING WITH C

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Write a code snippet to write a single character to the output using the putchar() function.

2. Describe the scanf () function and its usage.

3. What is a header file? Provide examples of commonly used header files in C.

4. Briefly describe the history of the C programming language.

5. What will be the output of the following C
   int i = 0;
   do
   printf("i++;
   while (i < 3);

6. What is a for loop? How does it differ from a while loop?

7. Define a one-dimensional array in C.

8. What is the purpose of the strlen function?

Section B

Answer any 4 questions. Each carry 6 marks.

9. Write a C program to generate Fibonacci numbers upto n.

10. Write a program using while loop to find the sum of all even numbers between 100 and 200

11. Write a program to count the positive, negative and zeros among a list of integers given by the user.

12. Write a program to read 'n' integers and sort them in ascending or descending order as per user's choice.

13. Write a program to check whether the given string is palindrome or not.

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14. Create a program that compares two strings given by the user and print whether they are same or not using string manipulation functions.

Section C

Answer any 1 questions. Each carry 14 marks.

15. What is an else-if ladder? Provide an example to illustrate its use.

16. Explain the various methods to represent an algorithm. Discuss the merits and demerits of each one of them.

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