

Reg No:.....

K24FY1317 (A)

Name :.....

First Semester FYUGP Computer Science Examination
NOVEMBER 2024 (2024 Admission onwards)
KU1DSCCSC101 (FUNDAMENTALS OF PROGRAMMING
WITH C)
(DATE OF EXAM: 2-12-2024)

Time : 90 min

Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. What is a header file? Provide examples of commonly used header files in C. 2
2. Write a code snippet to write a single character to the output using the putchar() function. 2
3. What are the usage of the printf() and scanf() functions. 2
4. Define a nested if statement and give an example. 2
5. Write a C program to check whether the given number is even or odd. 2
6. What will be the output of the following C
int i = 0;
do
printf("i++;
while (i < 3); 2
7. Define a one-dimensional array in C. 2
8. What does the strlen function do? Write a code snippet to demonstrate its usage. 2

Part B (Answer any 4 questions. Each carries 6 marks)

9. Write a short note on algorithm and how it applies to programming. 6
10. Write a program that uses both printf() and scanf() to create a simple interactive calculator. 6
11. Explain the else-if ladder with an example where multiple conditions are checked. 6
12. Write a program using while loop to find the sum of all even numbers between 100 and 200 6
13. Explain one-dimensional arrays in detail, including declaration, initialization, and access. 6

14. Create a program that compares two strings given by the user and print whether they are same or not using string manipulation functions. 6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. Differentiate between while and do-while. Illustrate with program example. 14
16. (a) Define bitwise operators and explain their application in programming with examples. 7
- (b) Discuss how operators in C are classified. Provide examples for each category. 7