Reg No:..... K24FY 1317 (B)
Name :.....

First Semester FYUGP Computer Science Examination NOVEMBER 2024 (2024 Admission onwards) KU1DSCCSC101 (FUNDAMENTALS OF PROGRAMMING WITH C)

(DATE OF EXAM: 4-12-2024)

Time : 90 min Maximum Marks : 50

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

1. What are the types of comments available in C 2
2. Define syntax error with an example. 2
3. How do you declare a variable in C? 2
4. What are the usage of the printf() and scanf()functions. 2
5. What is a simple if statement? Provide an example. (A2, A3, A4) 2
6. Write a C program to check whether the given number is even or odd. 2
7. Describe the while loop and its structure 2
8. List three common operations that can be performed on arrays in C and briefly describe each. 2

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

9. Describe the various types of errors possible in C. Give example for each. 6
10. Discuss different type qualifiers used with integers, with a simple program code. 6
11. Write a program that uses both printf() and scanf() to create a simple interactive calculator. 6
12. Write a C program to design an arithmetic calculator in C using switch. 6
13. Discuss the various types of loops in C and when to use each type. 6
14. Discuss the declaration and initialization of two-dimensional arrays with examples. 6

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

15. (a) Write a C program to find and print the sum of two matrices. Display an error message if the matrices are not possible to add. 7
    (b) Explain the declaration and initialization of 1-dimensional and 2- dimensional arrays in C. 7

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16. (a) Explain the do-while loop with syntax and an example. 7

(b) Discuss the while loop and its usage in iteration with an example. 7

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