Second Semester FYUGP Computer Science Examination
APRIL 2025 (2024 Admission onwards)
KU2DSCCSC110 (PRINCIPLES OF PROGRAMMING USING C)
(DATE OF EXAM: 30-4-2025)

Time : 90 min   Maximum Marks : 50

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

1. What you mean by Object code?   2

2. State the full form of ASCII   2

3. Name the command used to compile a C program in Linux.   2

4. What is the significance of the void data type in C?   2

5. List any four relational operators in C.   2

6. Explain the working of the else-if ladder with an example.   2

7. Give an example of initializing a one-dimensional array.   2

8. What is the difference between strcpy() and strncpy()?   2

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

9. What are constants in C? Explain the different types of constants with examples.
                                                                    6

10. Describe memory size of the int and char data types in C.   6

11. Explain arithmetic operators in C with examples.   6

12. How does a switch statement work internally? Compare it with if-else statements.
                                                                    6

13. Explain the declaration and initialization of a one-dimensional array with examples.
                                                                    6

14. Explain how to read and write a line of text using gets() and puts() functions with an example.   6

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

15. (a) Write a detailed note on operator precedence and associativity in C. Provide examples to demonstrate their importance.   7

    (b) Explain increment and decrement operators. Write a C program demonstrating both pre- and post-increment/decrement operations.   7

16. (a) Explain the do-while loop in detail with general form, working, flowchart, and example programs. 7

   (b) Write a program that reads a student's marks and prints the grade using switch statements. (Grade System: A, B, C, Fail). 7