

**Second Semester FYUGP Degree (Reg/Sup/Imp) Examination
April 2026**

**KU2DSCCSC110 - PRINCIPLES OF PROGRAMMING
USING C**

2024 Admission onwards

Time : 1.5 hours

Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. What is the purpose of using arrays in programming?
2. How do you declare a one-dimensional array in C?
3. What you mean by source code?
4. What you mean by Object code?
5. Explain the working of the else-if ladder with an example.
6. Can the while loop execute zero times? Why or why not?
7. What does the ternary (?:) operator does? Give a small example.
8. Write the syntax of scanf() function.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Write a program demonstrating static and extern storage classes.
10. How does a switch statement work internally? Compare it with if-else statements.
11. Compare the while and do-while loops with syntax and examples.
12. What is the difference between pre-increment and post-increment? Give an example to illustrate.
13. Write a program to read and display a character using getch() and putch().
14. How does scanf() handle different data types? Explain with examples.

Section C

Answer any 1 questions. Each carry 14 marks.

15.
 - (a) What is an array? Explain in detail the declaration, initialization, and accessing of a one-dimensional array with suitable examples.
 - (b) Write a program to find the largest and smallest element in a one-dimensional array. Explain the logic in detail.
16.
 - (a) Write a detailed note on the following:
 - a) Tokens in C
 - b) Rules for naming identifiers
 - c) Difference between variables and constants
 - (b) Write a C program to demonstrate the use of primary data types (int, char, float, double). Explain each step in detail.