

Dr. Babasaheb Ambedkar Open University

Term End Examination February – 2026

Course	: BSCIT	Date	: 26/02/2026
Subject Code	: BSCIT-102	Time	: 11:30am to 01:45pm
Subject Name	: Introduction to Programming using C	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain various data types in C with suitable syntax and examples.
2. Discuss various operators in C and explain operator precedence and associativity with examples.
3. What is an array? Explain one-dimensional and two-dimensional arrays with example.
4. What are user-defined functions in C? Explain the different categories of functions with example.
5. What is a structure? Explain how to declare, initialize, and access members of a structure with an example.

Section B

Answer the following (Attempt any four) (20)

1. Explain for, while, and do-while loops in C with suitable examples.
2. What are C-tokens? Explain different types of C-tokens with examples.
3. What is the switch statement in C? Explain its syntax with example.
4. Explain the declaration, initialization, and usage of strings in C.
5. Explain pointers in C.
6. Define recursion. Write and explain a recursive program to calculate the factorial of a number.

Section C

Part – A (Multiple Choice Questions) (10)

Q-1 Which of the following is a feature of C programming?

- A) Object-Oriented Programming B) Middle-Level Language
C) Platform Dependent D) Both B and C

Q-2 Which symbol is used to indicate a preprocessor directive in C?

- A) \$ B) &
C) # D) %

Q-3 Which of the following is a valid C variable name?

- A) 2value B) value_2
C) @value D) value#2

Q-4 Which operator is used to access the value at an address in C?

- A) & B) *
C) -> D) %

Q-5 In C, the %d format specifier is used for:

- A) Characters B) Integers
C) Floating-point numbers D) Strings

Q-6 Which loop is guaranteed to execute at least once?

- A) for B) while
C) do...while D) if...else
