

Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2026

Course	: BSCCS	Date	: 16/07/2026
Subject Code	: BSCCS-101	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 the structure of a C program.
2. Explain constants, variables, and data types in C.
3. Explain decision-making and branching statements in C.
4. Explain user-defined functions in C.
5. Explain pointer with example.

Section B

Answer the following (Attempt any four) (20)

1. Differentiate between Compiler and Interpreter.
2. Explain operator precedence and associativity in C.
3. Write a short note on formatted input and formatted output functions.
4. Explain the advantages of recursion.
5. Differentiate between Structure and Union.
6. Explain the different file opening modes used in C.

Section C

Part – A (Multiple Choice Questions) (10)

- Q.1 Which function is considered the starting point of execution in a C program?
A) start() B) begin()
C) main() D) execute()
- Q.2 Which of the following is a valid C identifier?
A) 2value B) float
C) total_marks D) roll-no
- Q.3 Which header file is commonly required for using the printf() function?
A) math.h B) string.h
C) stdio.h D) stdlib.h
- Q.4 Which operator is used to obtain the address of a variable?
A) * B) &
C) % D) #
- Q.5 Which looping statement checks its condition after executing the loop body?
A) for B) while
C) do...while D) if
- Q.6 Which storage class preserves the value of a local variable between function calls?
A) auto B) extern
C) static D) register
- Q.7 Which function is generally used to close a file after file operations?
A) fclose() B) closefile()
C) fclose() D) endfile()

Q.8 Which operator is used to access a structure member?

- A) -> B) .
- C) :: D) :

Q.9 Which keyword is used to transfer program control directly to a labeled statement?

- A) continue B) goto
- C) break D) return

Q.10 Which string-handling function returns the length of a string?

- A) strcat() B) strlen()
- C) strcmp() D) strcpy()

Part – B (State whether the following statements are true or false)

(10)

- 1 Every C program must contain exactly one main() function.
- 2 Variable names in C are case-sensitive.
- 3 The break statement can be used to terminate a loop prematurely.
- 4 A two-dimensional array is commonly used to represent tabular data.
- 5 Functions improve program modularity and code reusability.
- 6 Recursive functions must include a terminating condition.
- 7 Structures allow variables of different data types to be grouped together.
- 8 Pointer variables store memory addresses.
- 9 Files are used for permanent storage of data beyond program execution.
- 10 Standard library functions simplify common programming tasks.
