

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

Course	: BSCIT	Date	: 23/07/2026
Subject Code	: BSCITRMI-203	Time	: 11:30am to 01:45pm
Subject Name	: Object Oriented Programming using C++	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain Object Oriented Programming. Compare Procedural Programming and Object Oriented Programming.
2. Explain different forms of inheritance in C++ with suitable diagrams and examples.
3. Explain Classes and Objects in C++. Discuss data members, member functions and access specifiers with example.
4. What are Constructors and Destructors? Explain different types of constructors with suitable examples.
5. Explain Runtime Polymorphism using Virtual Functions.

Section B

Answer the following (Attempt any four) (20)

1. Explain tokens, identifiers and keywords in C++.
2. Differentiate between Array and Pointer with suitable examples.
3. Explain function overloading and its advantages.
4. Discuss operator overloading in C++. Explain unary and binary operator overloading.
5. Explain the role of decision-making and looping statements in C++.
6. Describe file handling operations in C++.

Section C

Part – A (Multiple Choice Questions)

(10)

Q.1 Who developed C++?

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|----------------------|------------------|
| A) Dennis Ritchie | B) James Gosling |
| C) Bjarne Stroustrup | D) Ken Thompson |

Q.2 Which feature of OOP allows code reusability?

- | | |
|------------------|----------------|
| A) Encapsulation | B) Inheritance |
| C) Abstraction | D) Constructor |

Q.3 Which access specifier makes members accessible only within the class?

- | | |
|------------|--------------|
| A) Public | B) Protected |
| C) Private | D) Friend |

Q.4 Which symbol is used to declare a class in C++?

- | | |
|-----------|-----------|
| A) struct | B) object |
| C) class | D) define |

Q.5 Which constructor takes no arguments?

- | | |
|------------------------------|------------------------|
| A) Parameterized Constructor | B) Copy Constructor |
| C) Dynamic Constructor | D) Default Constructor |

Q.6 Which operator cannot be overloaded in C++?

- | | |
|-------|-------|
| A) + | B) >> |
| C) :: | D) [] |

A) inherit
C) base
Q.8 Which keyword is used for runtime polymorphism?
A) friend
C) static
Q.9 Which function is used to open a file?
A) fopen()
C) create()
Q.10 Which loop executes at least once?
A) for
C) do-while

B) extends
D) public
B) virtual
D) const
B) open()
D) read()
B) while
D) nested for

(10)

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