

Seat No. : _____

JH-125

January -2021

B.C.A., Sem.-III

**CC-203 : Object Oriented Concepts and Programming
(New)**

Time : 2 Hours]

[Max. Marks : 50

- Instructions :** (1) All questions in **Section – I** carry equal marks.
(2) Attempt any **TWO** questions in **Section – I**.
(3) Question **5** in **Section – II** is **COMPULSORY**.

Section – I

1. (A) What are default arguments in C++ ? Explain with example. **10**
(B) Explain function overloading in C++ with example. **10**
2. (A) Explain dynamic memory allocation and deallocation in C++ with example. **10**
(B) What is constructor ? Explain copy constructor with example. **10**
3. (A) What is Inheritance ? What are the forms of Inheritance ? Explain in brief. **10**
(B) What is virtual base class ? Why do we need it ? Explain with example. **10**
4. (A) Explain the conversion from class type to class type using constructor and type conversion function. **10**
(B) What is function template ? How to overload function templates ? Give the example. **10**

Section – II

5. MCQs. (Any **5 × 2** marks each) **10**
 - (1) A private member of class is visible to _____.
 - (a) every where
 - (b) in sub class
 - (c) member to same package
 - (d) only member of same class

- (2) The arrow operator is also called as _____.
- (a) Pointer to member access operator
 - (b) Pointer to access operator
 - (c) Bit-wise operator
 - (d) None of these
- (3) A virtual function that is declared but not defined in a base class is called _____.
- (a) pure virtual function
 - (b) abstract function
 - (c) pure member function
 - (d) None of these
- (4) Which of the following is used to create an output stream ?
- (a) ofstream
 - (b) ifstream
 - (c) iostream
 - (d) fstream
- (5) Which feature of the OOPS gives the concept of reusability ?
- (a) Abstraction
 - (b) Encapsulation
 - (c) Inheritance
 - (d) None of the above
- (6) _____ are used for generic programming.
- (a) Inheritance
 - (b) Virtual functions
 - (c) Templates
 - (d) None of these
- (7) Which of the following concepts is used to implement late binding ?
- (a) Static function
 - (b) Virtual function
 - (c) Const function
 - (d) Operator function
- (8) Which of the following term is used for function defined inside a class ?
- (a) Member function
 - (b) Member static function
 - (c) Static function
 - (d) None of the above
- (9) What is a binary operator ?
- (a) Operator that performs its action on a single operand.
 - (b) Operator that performs its action on two operands.
 - (c) Operator that performs its action on three operands
 - (d) Operator that performs its action on any number of operands.
- (10) Constructor is executed when _____.
- (a) An object goes out of scope
 - (b) A class is declared
 - (c) An object is created
 - (d) An object is used