PBB-003-003302 Seat No. _____

BCA (Sem. III) (CBCS) Examination

October / November - 2018

CORE CS-14 C++ & Object Oriented Programming

(Old Course)

Faculty Code : 003
Subject Code : 003302

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

1 Answer the following : **20**

(1) C++ was developed by _____.

(2) What are C++ tokens ? List out them.

(3) List out decision making statements in C++.

(4) Visibility labels are followed by _____.

(5) To use the setw manipulator, you have to include the _____ header tile.

(6) Give syntax of new operator.

(7) Dynamic binding is also known as late binding.

(True/False)

(8) What is dynamic initialization of objects ?

(9) Friend function can declare in public section only.
(True/False)

(10) Give syntax to define a member function outside the class.

(11) The destructor is written by specifying a _____ sign before its name.

(12) Operator overloading is also known by the term _____.

(13) Overloading a unary operator using member function will require _____ arguments.

(14) If a class is deriving from more than one class, it is known as _____ inheritance.

(15) What is Abstract class ?

(16) Polymorphism means the ability to take more than one form. (True/False)

(17) List out manipulator functions.

(18) Give difference between get() and getline().

(19) Which function returns the current position of the output pointer ?

(20) Give syntax of seekg() function.

2 (A) Attempt Any **Three** : **6**

(1) Differentiate POP and OOP.

(2) Explain inline function with suitable example.

(3) Write a note on Input/output operators.

(4) Explain characteristics of constructor.

(5) Explain visibility modifiers.

(6) Explain reference variable.

(B) Attempt Any **Three** : **9**

(1) Explain Basic structure of C++ Program.

(2) Explain Scope Resolution Operators with suitable example.

(3) Explain Return by Reference with suitable example.

(4) Explain virtual base class with suitable diagram and example.

(5) Explain static member function with example.

(6) Explain Type Conversions in detail.

(C) Attempt Any **Two** : **10**

(1) Describe inheritance in brief.

(2) Explain Data types in C++.

(3) Explain Function Overloading with example.

(4) Explain Friend Function with suitable example.

(5) List out types of Constructor. Explain copy constructor with example.

3 (A) Attempt Any **Three** : **6**

(1) Explain File Modes.

(2) Explain Multilevel inheritance with its diagram and syntax.

(3) Explain Error Handling in detail.

(4) Explain this pointer with suitable example.

(5) Write down rules for virtual functions.

(6) Explain difference between Static and Constant keyword.

(B) Attempt Any **Three** : **9**

(1) Explain Rules for Operator Overloading.

(2) Explain Unformatted I/O operations.

(3) Difference between Virtual and Pure Virtual Function.

(4) Explain Command line arguments with suitable example.

(5) Explain random access file with example.

(6) Discuss in detail about object oriented paradigm.

(C) Attempt Any **Two** : **10**

(1) Explain pointer to derived class with suitable example.

(2) What are C++ stream classes ? Explain Formatted I/O operations.

(3) Explain Class Templates with example.

(4) Explain Overloading of template function with example.

(5) What is Operator Overloading ? Explain Unary operator overloading with example.