



PBB-003-003309

Seat No. _____

B. C. A. (Sem. III) (CBCS) Examination

November / December – 2018

CS-14 : C++ & Object Oriented Programming

(New Course)

Faculty Code : 003

Subject Code : 003309

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer the following : 20

- (1) C++ was developed by _____.
- (2) To use the setw manipulator, you have to include the _____ header file.
- (3) Give syntax of new operator.
- (4) Define : Data Encapsulation.
- (5) What is dynamic initialization of objects ?
- (6) Friend function can declare in public section only.
(True/False)
- (7) Give syntax to define a member function outside the class.
- (8) The destructor is written by specifying a _____ sign before its name.
- (9) Operator overloading is also known by the term _____.
- (10) What is containership ?

- (11) Overloading a unary operator using member function will require _____ arguments.
- (12) If a class is deriving from more than one class, it is known as _____ inheritance.
- (13) What is Abstract class ?
- (14) RTTI stands for _____.
- (15) List out manipulator functions.
- (16) Give difference between get() and getline().
- (17) STL stands for _____.
- (18) Define Partial Specialization of template.
- (19) Which function returns the current position of the output pointer ?
- (20) Give syntax of seekg() function.

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

- (1) Explain inline function with suitable example.
- (2) Explain Input/output operators.
- (3) What is MIL ? Give advantage of MIL.
- (4) Explain characteristics of constructor.
- (5) Explain visibility modifiers.
- (6) Describe structure of C++ program.

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

- (1) Explain Scope Resolution Operators with suitable example.
- (2) Explain Return by Reference with suitable example.
- (3) Explain Array of object with suitable example.
- (4) Explain static member function with example.
- (5) Explain Type Conversion with its method.
- (6) Explain in detail about STL.

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

- (1) Explain Data types in C++.
- (2) Explain Function Overloading with example.
- (3) Explain Friend Function with suitable example.
- (4) List out types of Constructor. Explain copy constructor with example.
- (5) What is inheritance ? Explain virtual base class with suitable diagram & example.

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

- (1) Explain Multilevel inheritance with its diagram & syntax.
- (2) Explain this pointer with suitable example.
- (3) Write down rules for virtual functions.
- (4) Define Iterators and Container.
- (5) Explain File Modes.
- (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 & Pure Virtual Function.
- (4) Explain Command line arguments with suitable example.
- (5) Explain Sequential I/O operations with suitable example.
- (6) Discuss in detail about object oriented paradigm.

(C) Attempt Any Two :

10

- (1) What is Operator Overloading ? Explain Binary operator overloading with example.
- (2) Explain pointer to derived class with suitable example.
- (3) What are C++ stream classes ? Explain Formatted I/O operations.
- (4) Why we need Exception Handling ? Explain various Components of Exception Handling with suitable example.
- (5) Explain Class Templates with example.