MAT-003-004302 Seat No. _____

B. Sc. (I. T.) (Sem. III) (CBCS) Examination

October / November – 2016

CS-14 : Object Oriented Programming with C++

Faculty Code : 003
Subject Code : 004302

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

1 Attempt the following : **20**

(1) << is _____ operator and >> is _____ operator.

(2) Which stream object are available as default in C++ program ?

(3) A constructor that accepts no parameter is called _____

(4) Which access specifier/s can help to achieve data hiding in C++?

(5) If m=6; n=++m; m++; then what would be output of n= _____ and m= _____ ?

(6) Give the two operators name which are not overloaded.

(7) List the types of inheritance supported in C++.

(8) List Types of constructor.

(9) The constructor is call whenever _____

(10) Which operator is used to inherit another class ?

(11) List types of polymorphism.

(12) What is recursion?

(13) Operator overloading is _____ type of polymorphism.

(14) Which function is used to move the stream pointer for the purpose of reading data from stream?

(15) Which header file is required to use different types of manipulator in program?

(16) C++ was originally developed by _____.

(17) _____ is memory release operator in C++.

(18) _____ is used in destination class, for basic to class type conversion?

(19) Can I use malloc( ) function of c language to allocate dynamic memory in C++?

(20) What is the role of the file opening mode ios::in ?

2 (a) Attempt the following : (any **three**) **6**

(1) What is Abstract Class?

(2) Define this pointer?

(3) Memory Management Operator.

(4) What is Input and Output Operator?

(5) Explain width() and precision( )

(6) Explain Pointer to Object.

(b) Attempt the following : (any **three**) **9**

(1) Write a note on Exception Handling.

(2) Explain Copy Constructor with example.

(3) Differentiate: OOP v/s POP.

(4) Discuss Rules for Overloading Operator.

(5) Explain Scope Resolution Operator with example.

(6) Explain Constructor in Derived Class with example.

(c) Attempt the following : (any **two**) **10**

(1) Discuss Benefits of Object Oriented Programming.

(2) Explain Application of OOP.

(3) What is Inheritance? List types of Inheritance available. Discuss any One in Brief.

(4) What is Expression? Discuss types of Expression.

(5) Write a program to compare two string with operator overloading.

3 (a) Attempt the following : (any **three**) **6**

(1) What is Constructor?

(2) What is Pure Virtual Function?

(3) What is Polymorphism?

(4) Explain Memory Management Operator

(5) Explain Structure of C++ Program

(6) Explain function prototype

(b) Attempt the following : (any **three**) **9**

(1) Discuss Characteristics of Constructor

(2) Explain Inline Function with example

(3) Explain Friendly function with example

(4) Explain Memory allocation for Object

(5) Write a note on virtual base class

(6) Explain setw( ) and endl( ) manipulator with example

(c) Attempt the following : (any **two**) **10**

(1) Explain Function Overloading with example.

(2) What is Operator Overloading? Explain Binary Operator Overloading with example.

(3) Explain Object as Function Argument with appropriate example.

(4) Write a program to read source.txt file and copy into desti.txt file.

(5) Write a program to Demonstrate use of Hybrid Inheritance with Virtual Base Class.
