MAT-003-003302 Seat No. _____

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

October / November – 2016

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) _____ is the only function all C++ programs must contain.

(2) _____ punctuation ends most lines of C++ code.

(3) The wrapping up of data and functions into a single unit is called _____.

(4) Dynamic binding is also known as late binding. (TRUE/FALSE) ?

(5) Polymorphism means the ability to take more than one form. (TRUE/FALSE) ?

(6) The concept of using one operator for different purpose is known as _____.

(7) _____ provides an alias for a previously defined variable.

(8) _____ Variable must be initialized at the time of declaration.

(9) Visibility labels are followed by a _____.

(10) The functions declared inside the class are known as member function. (TRUE/FALSE) ?

(11) Static function can access the private data of the class. (TRUE/FALSE) ?

(12) What is a pointer?

(13) What is a function?

(14) Give the syntax of switch case statement.

(15) Give the syntax of derived class.

(16) List out the logical operators in C++.

(17) List out the decision making statements in C++.

(18) What is a Global variable?

(19) List out file modes in C++.

(20) A _____ is used to destroy the objects that have been created by the constructor.

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

(1) Write a note on input and output streams.

(2) Explain manipulators : endl and setw( )

(3) Explain Reference variable.

(4) Differentiate POP v/s OOP.

(5) Explain setf( ) and setfill( ) manipulator.

(6) Explain: pure virtual function.

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

(1) Explain: Const Argument in member function.

(2) Explain get( ) and put( ) function.

(3) Describe basic concept of OOP.

(4) Explain enumeration.

(5) Describe command line arguments.

(6) Explain concept of default argument.

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

(1) What is function? Explain call by reference mechanism

(2) What is OOP? Explain classes and objects.

(3) Explain constructor overloading.

(4) What is type conversion? Explain basic to class type conversion with example.

(5) What is virtual function explain with example.

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

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

    (2) What is Token? List out various tokens available in C++.

    (3) Write a note on members of class.

    (4) Explain Open( ) and close( ) function.

    (5) What is scope resolution operator? Explain with suitable example.

    (6) Explain Object as a argument in member function.

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

    (1) Explain static member variable.

    (2) Explain const arguments.

    (3) Explain memory allocation for object.

    (4) Explain Data abstraction and Encapsulation.

    (5) Explain getline( ) and write( ) function.

    (6) Explain this pointer.

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

    (1) What is data type? List out all the data types available in C++ and explain any one category of it.

    (2) Describe Inheritance in brief.

    (3) Write a functions called sum( ) which is used to find out of sum of 2 int values and 3 int values. Use the concept of function default argument. Write a main ( ) function that gets value from the user to test these functions.

    (4) Explain random access file with example.

    (5) Create a class emp that has e_no, e_name and city as data member and void get( ) and void put( ) as member functions. Write appropriate main( ) function for it.

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