**B. Sc. (I.T.) (Sem. III) (CBCS) (W.I.F. 2016) Examination**

October / November – 2017

**CS-14 : C++ & Object Oriented Programming**

**Faculty Code : 003**

**Subject Code : 1043002**

Time :   Hours]                                                    [Total Marks : **70**

1   (a)   Objective type questions :                                 **4**

    (1)   OOP means _____

    (2)   POP means _____

    (3)   Keyword means _____

    (4)   Is C++ supports Manipulators? (Yes/No)

  (b)   Answer in Brief : (any 1 out of 2)                    **2**

    (1)   What is Token?

    (2)   What is C++?

  (c)   Answer in detail : (any 1 out of 2)                   **3**

    (1)   Define any two tokens.

    (2)   Define if and do ... while structure.

  (d)   Write a note on : (any 1 out of 2)                    **5**

    (1)   Explain application of OOP.

    (2)   Write a c++ program to print table using while loop.

**2**  (a)  Objective type questions :                                            **4**

  (1)  Is C++ supports class? (Yes/No)

  (2)  Is C++ supports abstract function overloading? (Yes/No)

  (3)  Class is a _____

  (4)  Function is a _____

  (b)  Answer in brief : (any 1 out of 2)                                            **2**

  (1)  Define member function.

  (2)  Define how to allocate and deallocate objects.

  (c)  Answer in detail : (any 1 out of 2)                                            **3**

  (1)  Give the example of Const Member Function.

  (2)  How to define Static Data Member in a Class.

  (d)  Write a note on : (any 1 out of 2)                                            **5**

  (1)  Give an example of Array of Objects

  (2)  Write a c++ program to compare two values using friend function.

**3**  (a)  Objective type questions :                                            **4**

  (1)  Is C++ support Constructor? (Yes/No)

  (2)  Destructor sign is _____

  (3)  Empty constructor is called _____

  (4)  Is C++ support two dimensional Arrays? (Yes/No)

  (b)  Answer in brief : (any 1 out of 2)                                            **2**

  (1)  Define types of operator overloading.

  (2)  Give an example of default constructor.

(c) Answer in detail : (any 1 out of 2)                                   **3**

   (1) Define short note on MIL.

   (2) Define Copy Constructor in class.

(d) Write a note on : (any 1 out of 2)                                     **5**

   (1) Define rules for operator overloading.

   (2) Give an example of Dynamic Constructor that allocates string dynamically with particular length.

**4** (a) Objective type questions :                                         **4**

   (1) Is C++ supports this pointer? (Yes/No)

   (2) Is C++ supports Pure Virtual Function? (Yes/No)

   (3) this pointer defines _____

   (4) Derived class means _____

(b) Answer in brief : (any 1 out of 2)                                     **2**

   (1) Define short concept of pointer to object in c++.

   (2) Define abstract class.

(c) Answer in detail : (any 1 out of 2)                                    **3**

   (1) Define short concept of Virtual function.

   (2) Define what run time identification is?

(d) Write a note on : (any 1 out of 2)                                     **5**

   (1) Write a c++ program to prepare mark sheet using hybrid inheritance.

   (2) Write a c++ program to count how many objects are created using constructor.

**5**   (a)   Objective type questions :                                          **4**

   (1)   Stream means _____

   (2)   Template means _____

   (3)   Exception means _____

   (4)   Is c++ support manipulators? (Yes/ No)


   (b)   Answer in brief : (any 1 out of 2),                                 **2**

   (1)   Define File Modes in c++.

   (2)   Define C++ Stream with diagram.


   (c)   Answer in detail : (any 1 out of 2)                                **3**

   (1)   Give overview of Exception Handling.

   (2)   Define template overloading.


   (d)   Write notes on : (any 1 out of 2)                                  **5**

   (1)   Write a c++ program to get input from user at
         command line argument and find whether number
         is even or odd.

   (2)   Write a c++ program to get input number from
         user, create multiple catch to display appropriate
         message.

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