

**I UNIT TEST 2017-18**

**STD:XII Sub: Computer Science-I**

**MARKS:25**

**DATE:** \_\_\_\_\_

**TIME:1hr 30 min**

- Q1 Select the correct alternative & rewrite the following (2)**
- 1 Static member functions can access only the \_\_\_\_\_ members of a class.  
i)non-static ii)static iii)data iv)None of these
  - 2 A \_\_\_\_\_ is a special member function used to initialize data members of a class.  
i)destructor ii)function iii)constructor iv)None of these
- Q2 Answer any two of the following (6)**
- 1 What is a constructor? Give syntax rules for writing constructor function.
  - 2 What is Inheritance? Explain different forms of inheritance.
  - 3 What is a class? Explain the structure of a class.
- Q3 Answer any one of the following (4)**
- 1 Write down the characteristics of friend function.
  - 2 Describe how member functions of class can be defined outside the class definition & inside the class definition.
- Q4 Answer any one of the following (3)**
- 1 Give the characteristics of static data members.
  - 2 Explain Copy Constructor with one example.
- Q5 Answer any two of the following (10)**
- 1 Design a class Geometry containing methods area() & volume() & also overload the area() function.
  - 2 Implement a point class for 2 dimensional points(x,y). Include a function norm() to return the points distance from origin(0,0) and a print() function to print the result.
  - 3 Design a class Demo which will contain the following methods: readNo(), factorial() for calculating the factorial of a number, reverseNo() will reverse the given number. Where readNo() will be private method.