1) Which of these is false

A) Java supports multiple inheritance  
B) Inheritance is implemented in Java using the extends keyword  
C) Final classes in Java cannot be subclassed or inherited.  
D) Final methods in Java cannot be overridden.

2) Which of these is false regarding super keyword

A) super keyword can be used to invoke the superclass constructor from within the subclass constructor  
B) super keyword can be used to invoke the superclass constructor from subclass methods  
C) super keyword can be used by subclass to access base class data members  
D) super keyword cannot access super class data members if they are private in the super class.

3) What is the output of the following program

```java
class A
{
    void printMsg()
    {
        System.out.println("Method 1");
    }

    void printMsg(int i)
    {
        System.out.println("Method 2");
    }

    void printMsg(char c)
    {
        System.out.println("Method 3");
    }
}

class Test
{
    public static void main(String args[]) 
    {
        A a = new A();
        a.printMsg("a");
    }
}
```

A) Method 2  
B) Method 3  
C) Runtime error since there is no method that takes string parameter  
D) Compile error since there is no method that takes string parameter
4) What is the output of the following program

class A
{
   void printMsg()
   {
      System.out.println("print in A");
   }
}

class B extends A
{
   void printMsg()
   {
      System.out.println("print in B");
   }
}
class Test
{
   public static void main(String args[])
   {
      A a = new B(); //Line x
      a.printMsg(); //Line y
   }
}

A) print in A
B) print in B
C) compile error at line x since reference of type A cannot point to object of type B
C) compile error at line y since type of the reference a is neither A nor B

5) Which of these is false

A) A class can simultaneously extend another class and implement an interface.
B) Cyclic inheritance is permitted in Java (Class A extends class B and class B extends class A).
C) A class can implement more than one interface.
D) Invoking the super class constructor from subclass constructor is optional.