Exam. Poll. No. 6

Subject:-Java Programming Paper Code: MCAO- 201/MCSO-201

Time: One Hour

Max. Marks: 30

Note: All questions are compulsory. Each question carries 6 marks. Part A of each question carries 4 marks and part B carries 2 marks.

O.1. (A) Discuss the method calling mechanism for method overloading and overriding when a superclass reference variable has a subclass object.

O1. (B) Which of these are keywords in Java?
Select all valid answers.

(a) default (b) NULL (c) String (d) throw

(e) lon

- Q 2. (A) Discuss the use of this constructor and super constructor for method overloading and overriding.
- Q 2. (B) Which statements are true about the following code?

```
class A {
  public A() {}
  public A(int i) { this(); }
  }
  class B extends A {
   public boolean B(String msg) { return false; }
  }
  class C extends B {
   private C() { super(); }
   public C(String msg) { this(); }
   public C(int i) {}
}
```

Select all the valid answers.

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The code will fail to compile.

The constructor in A that takes an **int** as an argument will never be called as a result of constructing an object of class B or C.

Class C defines three constructors.

Objects of class B cannot be constructed.

At most one of the constructors of each class is called as a result of constructing an object of class C.

```
Q.S. (A) Discuss different ways to initialize the two-dimensional array. Also shows the
       osage of length variable for two-dimensional array.
  (B) What will be written to the standard output when the following program is run?
      class abc
      {
       public static void main(String args[]) {
              System.out.print(9 ^ 2);
        }
      (a) Compile time error
      (b) 81
      (c) 11
      (d) 0
 94. (A) Describe labelled break and labelled continue statements with the help of example.
94. (B) Which declarations will allow a class to be started as a standalone program?
     Select all valid answers.
     (a) public void main(String args[])
     (b) public void static main(String args[])
    public static void main(String[] a)
    final public static void main(String arg[])
   5. (A) How to achieve multiple inheritance in Java. Explain multiple inheritance with the
     fielp an example.
\sqrt{5}. (B) What will be the output of the following program also justifies your answer.
     class abc {
      public static void main(String args[]) {
             abc obj=null;
             String str="null";
             boolean bool = str == obj;
             System.out.print(bool);
      }
  Compile time error- incomparable types: String and abc (محرر
    (b) false
    (c) true
    Runtime exception
```