Gaza University
Faculty of Computer Science and
Information Technology
Computer Science Department
First Semester 2021/2022

**Midterm Exam -A-**

Course Name: Programing 2
Course Code: CSCI1326
Day: Sunday
Date:21-11-2021
Time: 9-11
Instructor: Musbah J. Mousa

**Student Name:** ………………………………………… **St.No**……………………

| First Question | 10 marks |
|---|---|

## Choose the correct answer:

1. **Which of the following are Java keywords?**

   A. instanceOf                                    B. cast

   C. instanceof                                    D. casting

2. **Which of the following best defines a class?**

   A. Parent of an object                           B. Instance of an object

   C. Blueprint of an object                        D. Scope of an object

3. **_____ is a special method in java that enables an object to initialize itself when it is created.**

   A.constructor                                    B. destructor

   C.static                                         D final

4. **If super class and subclass have same variable name, which keyword should be used to use super class?**

   A. super                                         B. this

   C. upper                                         D. classname

5. **When does method overloading is determined?**

   A. At run time                                   B. At compile time

   C. At coding time                                D. At execution time

6. **Which member can never be accessed by inherited classes?**

   A. Private member function                       B. Public member function

   C. Protected member function                     D. All can be accessed

7. **Which of the following is a type of polymorphism in Java?**

   A. Compile time polymorphism                    B. Execution time polymorphism

   C. Multiple polymorphism                         D. Multilevel polymorphism

8. **When you implement an instance method that is defined in a superclass, you _____ the original method.**

   A. overload                                      B. override

   C. copy                                          D. call

9. **Which syntax among the following shows that a member is private in a class?**

   A. private: functionName(parameters)            B. private(functionName(parameters))

   C. private functionName(parameters)             D. private::functionName(parameters)

10. **Class is pass by _____**

    A.Value                                         B.Reference

    C.Value or Reference, depending on program      D.Copy

    **Answers**:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|
|   |   |   |   |   |   |   |   |   |    |

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## Second Question                                                    10 marks

## Find the output of the following programs:

**Program 1:**

```
public static void main(String[] args){

T t = new T();

swap(t(;

System.out.println("e1 = " + t.e1+ " e2 = " + t.e2(;

}

public static void swap(T t){

int temp = t.e1;

t.e1 = t.e2;

t.e2 = temp;
```

```
}

}

class T{

int e1 = 1;

int e2 = 2;

}
```

**Program 2:**

```
class A{

public A(){

System.out.println)"A's no-arg constructor is invoked");

}

}

class B extends A {

        System.out.println)"B's no-arg constructor is invoked");

}

public class C{

public static void main(String[] args){

B b = new B();

}

}
```

**Third Question**                                                      **10 marks**

## Identify and correct the errors in the following programs :

**Program 1:**

```
public class C {

private int p;

public C() {

System.out.println("C's no-arg constructor invoked");

this(0);

}
```

```java
public C(intp) {

p = p;

}

public void setP(intp) {

p = p;

}

}
```

**Program 2:**

```java
public class Test {

public static void main(String[] args) {

    Object fruit = new Fruit();

    Object apple = (Apple)fruit;

}

}


class Apple extends Fruit {

}


class Fruit {

}
```

With Best Wishes,,

Musbah J. Mousa