CSC 113 TUTORIAL

QUIZ I

INSTRUCTIONS

- Take out a paper.
- Write your name and date.
- Type the question number next to the answer i.e Question 1) A
- Each question will be shown on the board a max of 3 mins, act fast.

Good luck

FILL IN THE SPACE

1. An object is an instance of a _____.
2. The keyword _____ is required to declare a class.
3. _____ is used to create an object.

CHOOSE ONE OF THE FOLLOWING

4) Given the declaration

Student [ ] x = new Student[10];

which of the following statement is most accurate?

A. x contains an array of ten int values.
B. x contains an array of ten objects of the Student type.
C. x contains a reference to an array and each element in the array can hold a reference to a Student object.
D. x contains a reference to an array and each element in the array can hold a Student object.

CHOOSE ONE OF THE FOLLOWING

5) When invoking a method with an object argument, _____ is passed.

A. the contents of the object
B. a copy of the object
C. the reference of the object
D. the object is copied, then the reference of the copied object

CHOOSE ONE OF THE FOLLOWING

6) Variables that are shared by every instances of a class are _____.

A. public variables
B. private variables
C. instance variables
D. class variables

CHOOSE FROM THE FOLLOWING

7) Which of the following statements are true?

A. A default constructor is provided automatically if no constructors are explicitly declared in the class.
B. At least one constructor must always be defined explicitly.
C. Every class has a default constructor.
D. The default constructor is a no-arg constructor.

CHOOSE FROM THE FOLLOWING

8) Which of the following is incorrect?

A. int[] a = new int[2];
B. int[] a = new int(2);
C. int a = new int[2];
D. int a() = new int[2];

CHOOSE FROM THE FOLLOWING

9) Which of the following statements are true?

A. A default constructor is provided automatically if no constructors are explicitly declared in the class.
B. At least one constructor must always be defined explicitly.
C. Every class has a default constructor.
D. The default constructor is a no-arg constructor.

CHOOSE FROM THE FOLLOWING

10) Which of the following statements are true?

A. A subclass is a subset of a superclass.
B. A subclass is usually extended to contain more functions and more detailed information than its superclass.
C. "class A extends B" means A is a subclass of B.
D. "class A extends B" means B is a subclass of A.

CHOOSE FROM THE FOLLOWING

11)

```
public class Student {
  String name;

public Student(String name) {
    this.name = name; }

  void print( ) {
    System.out.println(name); }
}
```

```
public class Test {
  public static void main(String[] args) {
    Student s = new Student( );
    s.print( );
  }
}
```

A. The program has a compilation error because class Student does not have getName( ).

B. The program has a compilation error because class Student does not have a default constructor.

C. The program compiles and runs fine and prints nothing.

D. The program would compile and run if you change Student s = new Student( ) to Student s = new Student("5").

CHOOSE FROM THE FOLLOWING

12) What is the output of the following code?

```
public class Parent {
  int id = 1;
 public void print() {
    System.out.println(id);
  }
}
```

```
public class Child extends Parent {
  int id = 2;
}
```

```
public class Test1 {
  public static void main(String[]
args) {
    Child c = new Child();
    c.print( );
```

A. A. 0
B. 1
C. 2
D. Error

WRITE THE FOLLOWING PROGRAM

13) Write a class with a main method that shows a menu and ask the user to enter a choice to do the following:

1. Print your Name.
2. Show your Student ID.
3. Exit.

Don't forget to use default.