



PROGRAMMING IN JAVA

Assignment5

TYPE OF QUESTION: MCQ

Number of questions: 10

Total mark: $10 \times 1 = 10$

QUESTION 1:

Which one is correct declaration for implementing two interfaces?

- a. class C implements A, B { }
- b. class C implements A, implements B { }
- c. class C implements A extends B { }
- d. class C extend A, B { }

Correct Answer: a

Detailed Solution:

In case of inheritance, `extends` is not applicable to interface.

QUESTION 2:

Which access type data gets derived as private member in derived class?

- a. private
- b. public
- c. protected
- d. default

Correct Answer:c

Detailed Solution:

A data/ method with protected becomes the private in the derived class.

QUESTION 3:

All interface methods are implicitly

- a. public and final
- b. public and abstract

- c. protected and abstract
- d. private and abstract

Correct Answer:b

Detailed Solution:

All interface methods are implicitly public and abstract. In other words, a programmer need not to explicitly type the public or abstract modifiers in the method declaration.

QUESTION 4:

Consider the following piece of code.

```
public class Trycatchfinally {  
    public static void main(String []args) {  
        try {  
            System.out.println("try");  
            System.exit(0);  
        }  
        catch(ArithmeticException e){  
            System.out.println("catch");  
        }  
        finally {  
            System.out.println("finally");  
        }  
    }  
}
```

Which of the following statement(s) is/are correct?

- a. The output of the code is
try
catch
finally
- b. The output of the code is
try
- c. The output of the code is
try
finally



-
- d. The output of the code is
catch
finally

Correct Answer: b

Detailed Solution:

`System.exit(0)` will execute in try block and the control will not go to other block and hence the output is only try.

QUESTION 5:

Does a subclass inherit both member variables and methods?

- a. No—only member variables are inherited.
- b. No—only methods are inherited.
- c. Yes—both are inherited - but not those are declared as private.
- d. Yes—only the members/ methods with protected are inherited.

Correct Answer: c

QUESTION 6:

Consider the following program.

```
public class Question4{
    public static void main(String args[]){
        int arr[]={0,1,2,3,4};
        int index=0;
        while(arr[index]==index){
            System.out.print(arr[index]);
            index++;
        }
    }
}
```

If the program is executed, then what will be the output from the execution?

- a. 01234
- b. 01234 with `ArrayIndexOutOfBoundsException`
- c. `ArrayIndexOutOfBoundsException`
- d. Compilation error

Correct Answer: b

QUESTION 7:

Which of the following is a class?

- a. `DriverManager`
- b. `Connection`
- c. `Statement`
- d. `ResultSet`

Correct Answer: a

Detailed Solution:

Except for `DriverManager`, every other options are interfaces.

QUESTION 8:

Consider the program given below.

```
public class Question8{
    static public void method1(){
        System.out.println("This");
    }
    public static void method2(){
        System.out.println("is");
    }
    static public int method3(){
        System.out.println("Java");
        return 0;
    }
    public static void main(String args[]){
        try{
            method1();
        }catch(Exception e){
            System.out.println("1:"+e);
        }
        try{
            method2();
        }catch(Exception e){
            System.out.println("2:"+e);
        }
        try{
            method3();
        }catch(Exception e){
            System.out.println("3:"+e);
        }
    }
}
```

What will be the output of the following code?

- a. This
is
Java
- b. Exception at method 1
- c. Exception at method 2
- d. Exception at method 3

Correct Answer: a

QUESTION 9:

Consider the following code segment.

```
class Refer{
    static int a = 1;
}

class Answer extends Refer{
    static int a = 2;
}

public class Question9 extends Answer{
    public static void main(String args[]){
        a = 5;
        System.out.println(Answer.a);
        System.out.println(Reference.a);
    }
}
```

What will be the output of the following code?

- a. 1
1
- b. 1
2
- c. 5
1
- d. 5
5

Correct Answer: c

QUESTION 10:

Consider the following piece of program.

```
class Parent {
    int a=40;
    int b=20;
}

public class Child1 extends Parent {
    int a=100;
    int b=200;

    void add(inta,int b) {
        //body
    }

    public static void main(String[] args) {
        Child1 c = new Child1();
        c.add(1000,2000);
    }
}
```

Which of the following statements(s) is/are replaced in body of the function definition of **void add(inta,int b)** to get the output 60?

- a. System.out.println(this.a+b);
- b. System.out.println(this.a+this.b)
- c. System.out.println(super.a+super.b);
- d. System.out.println(a+b);

Correct Answer: c

Detailed Solution:

super.a=40 and super.b=20, so addition is 60.

*****END*****