





PROGRAMMING IN JAVA

Assignment 5

TYPE OF QUESTION: MCQ

Number of questions: 10 Total mark: $10 \times 1 = 10$

QUESTION 1:

Consider the following program.

```
class Question
{
    int i;
    public Question(int i)
        this.i = i--;
}
class Question1 extends Question
    public Question1(int i)
        super(++i);
        System.out.println(i);
    }
}
public class Check
    public static void main(String[] args)
        Question1 n = new Question1(20);
}
```

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





- a. 20
- b. 21
- c. 19
- d. 22

Correct Answer: b

Detailed Solution:

The output can be checked by execution.

QUESTION 2:

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

- 1. A class can extend more than one class.
- 2. An interface can extend many interfaces.
- 3. An interface can implement many interfaces.
- 4. A class can extend one class and implement many interfaces.
 - a. 1
 - b. 2
 - c. 3
 - d. 4

Correct Answer: a, c

Detailed Solution:

An interface can extend many interfaces. A class can extend one class and implement many interfaces. These statements are true.







QUESTION 3:

What is the output of the following code?

```
class Question
    static int x;
    static
        x++;
        ++x;
class Question1 extends Question
    static
        --x;
        x--;
public class Check
    public static void main(String[] args)
        System.out.println(new Question1().x);
```

- a. 1
- b. 2
- c. 0
- d. Compiler error





Correct Answer: c

Detailed Solution:

The output can be checked by execution.

QUESTION 4:

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

- a. Interface can provide the implementation of an abstract class.
- b. The variables defined inside an interface are static and final by default.
- c. An interface is used to achieve full abstraction.
- d. Inside an interface, a constructor can be called using the super keyword with hierarchy.

Correct Answer: a, d

Detailed Solution:

A constructor cannot be called inside an interface using the super keyword with hierarchy. Interface can't provide the implementation of an abstract class.







QUESTION 5:

What is the output of the following code?

```
class Q
    public void disp()
        System.out.println("java");
}
class P extends Q
    public void disp()
        System.out.println("nptel");
class C extends P
    public void disp()
        super.super.disp();
        System.out.println("course");
}
public class Question
    public static void main(String[] args)
        C c = new C();
        c.disp();
```

- a. java
- b. java

course

- c. nptel course
- d. Compiler error





Correct Answer: d

Detailed Solution:

The output can be checked by execution. In Java, it is not allowed to do super.super.

QUESTION 6:

Which of the following keywords is/are a part of exception handling?

a. finally

b. throws

c. throw

d. thrown

Correct Answer: a, b, c

Detailed Solution:

Exceptional handling have 5 keywords – try, catch, throws, throw and finally.







QUESTION 7:

Consider the following piece of code.

```
interface X
{
    void display();
}

class Y implements X
{
    _____ display()
    {
        System.out.println("Java");
    }
}

public class MainClass
{
    public static void main(String[] args)
    {
        Y r = new Y();
        r.display();
    }
}
```

Fill the blank in the above program to print the output "Java".

- a. public void
- b. void
- c. private void
- d. static void

Correct Answer: a

Detailed Solution:

Interface methods must be implemented as public. Because, interface methods are public by default and you should not reduce the visibility of any methods while overriding.





QUESTION 8

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- a. java.void
- b. java.io
- c. java.lang
- d. java.awt

Correct Answer: c

Detailed Solution:







QUESTION 9:

Consider the following code.

Fill in the blank with appropriate syntax for creating an object "c" to run the above program successfully.

```
a. X c = new X(1);
b. X c = new X();
c. X.Question c = new X.Question(0);
d. X.Question c = new X.Question(1);
```

Correct Answer: c, d

Detailed Solution:

The output can be checked by execution.





QUESTION 10:

```
class X
{
    static
    {
        Y.display();
    }
}

class Y extends X
{
    static void display()
    {
        System.out.println("Java");
    }
}

public class MainClass
{
    public static void main(String[] args)
    {
        Y.display();
    }
}
```

If the program is executed, then how many times "Java" will print?

- a. 0
- b. 1
- c. 2
- d. 3

Correct Answer: c

Detailed Solution:

The output can be checked by execution.





**********END***	*****