

MA blueprint of a class that can be implemented by multiple classes

A class that can only be inherited by other classes

None of the above

## DO NOT WRITE ANYTHING ON QUESTION PAPER EXCEPT ROLL NO.

<b>Question 4.</b> What is the difference between an abstract class and an interface in Java?
<ul> <li>□ An interface can have method definitions while an abstract class cannot</li> <li>☑ An abstract class can have method definitions while an interface cannot</li> <li>□ An abstract class can be instantiated while an interface cannot</li> <li>□ An interface can be extended while an abstract class cannot</li> </ul>
<b>Question 5.</b> Which of these method of Thread class is used to Suspend a thread for a period o f time?
✓ sleep()  □ terminate()  □ suspend()  □ stop()
Question 6. Score: 1/1Time spent:49 sec
Which of these method of class String is used to obtain length of String object?  ☐ get() ☐ Sizeof() ☐ lengthof() ☑ length()
Question 7. Which of the following is true about the String class in Java?
☐ It is mutable ☐ It is immutable ☐ It is a subclass of the StringBuffer class ☐ It is a subclass of the StringBuilder class
<b>Question 8.</b> "An abstract class can have constructor." Which statement will be true from the se?
<ul> <li>No abstract class can not have constructor.</li> <li>Abstract class can have only static constructor.</li> <li>✓ Yes, abstract class can have constructor.</li> <li>Abstract class can have constructor but must be default constructor.</li> </ul>
Question 9. Choose the correct syntax of a Java Package below.
<ul> <li>✓ package PACKAGE_NAME;</li> <li>☐ package PACKAGE_NAME.*;</li> <li>☐ pkg PACKAGE_NAME;</li> <li>☐ pkg PACKAGE_NAME.*;</li> </ul>
<b>Question 10.</b> Two methods in the Thread class that help the user to create and run threads are :
<ul> <li>✓ public void run() and public void start()</li> <li>☐ public void run(Thread t) and public void start(Thread t)</li> <li>☐ thread(Runnable) and start()</li> <li>☐ Thread() and Runnable()</li> </ul>

## Section-2-Multiple Choice

```
Question 1. Consider the following program and predict the output:
class MyThread extends Thread {
    public void run() {
       System.out.println("In run method; thread name is: " + Thread.currentThread().getNa
me());
}
class ThreadTest {
    public static void main(String args[]) {
       Thread myThread = new MyThread();
       myThread.run(); // #1
       System.out.println("In main method; thread name is: " + Thread.currentThread().getN
ame());
  }
☐ The program results in a compiler error at statement #1.
The program results in a runtime exception.
The program prints the following: In run method; thread name is: main In main method; the
read name is: main
☐ The program prints: In the run method; the thread name is: thread-0 In the main method; t
he thread name is: main
Question 2. Find the output of the following program.
 try {
  int x = 10 / 0;
} catch (ArithmeticException e) {
  System.out.print("Arithmetic Exception ");
} catch (Exception e) {
  System.out.print("Exception");
} finally {
  System.out.print("Finally block ");
```

- ☐ Exception Finally block
- Marithmetic Exception Finally block
- Arithmetic Exception
- Exception

## **Question 3.** What will be the output of the following code?

```
public class MCQ {
  public static void main(String[] args) {
    try {
     int[] arr = new int[5];
     arr[10] = 10;
    try {
```

```
String str = null;
       System.out.println(str.length());
      } catch (NullPointerException e) {
       System.out.println("Caught NullPointerException");
     } catch (ArrayIndexOutOfBoundsException e) {
      System.out.println("Caught ArrayIndexOutOfBoundsException");
 }
Caught NullPointerException
☑ Caught ArrayIndexOutOfBoundsException
☐ Both of the above
☐ None of these
Question 4. What will be the output of the following code?
public class StringExample {
public static void main(String[] args) {
String s1 = "Hello";
String s2 = "World";
String s3 = "HelloWorld";
String s4 = s1 + s2;
String s5 = "Hello" + "World";
System.out.println(s3 == s4); // Line 1
System.out.println(s3 == s5); // Line 2
System.out.println(s3.equals(s4)); // Line 3
System.out.print(s3.equals(s5)); // Line }}
true false true false
true true true true
false true false true
✓ false true true true
Question 5. Which keyword is used to ensure that a block of code is always executed, even if
an exception is thrown?
☐ try
catch
throw
s finally
```