

Not Equal

Compile error

Runtime error

Question 4. A Java Class inherits Constants and Methods of an Interface using __ keyword.

□INTERFACE	
EXTENDS	
✓ IMPLEMENTS	
All the above	

Question 5. Which is the default Java package that will be auto included (imported) in the class path while Compiling and Running a Java program?

iava.io 🔲 java.util

CS109/2022-2023

DO NOT WRITE ANYTHING ON QUESTION PAPER EXCEPT ROLL NO.

☐ java.net ☑ java.lang
Question 6. What is a package in Java?
 □ A Package is a collection of files of type Java Class, Interfaces, or Abstract Class □ A Package is simply a Directory or Folder with Java Classes □ A Package usually contains Java Classes written for a specific purpose or problem ☑ All of the above
Question 7. How can you create a custom exception in Java?
 □ By extending the Exception class □ By implementing the Throwable interface ☑ By creating a new class that extends the Exception class or one of its subclasses □ All of the above
Question 8. Which method is used to set the priority of a thread in Java?
setPriority() getPriority() setThreadPriority() getThreadPriority()
Question 9. Which of the following is NOT a built-in exception class in Java?
□ RuntimeException □ IOException □ ArithmeticException ☑ NullException
Question 10. Which of the following statements is true about exceptions in Java?
 ☐ All exceptions in Java are checked exceptions. ☐ All exceptions in Java are unchecked exceptions. ☑ Some exceptions in Java are checked exceptions, while others are unchecked exceptions. ☐ Java does not have exceptions.
Section – B (Q 11 to 15: Each question carries 1 mark)
Question 11. What will be the output of the following code?
<pre>public class StringExample { public static void main(String[] args) { try { String str = null; String newStr = str.substring(0, 5); System.out.println(newStr); } catch (NullPointerException ex) { System.out.println("NullPointerException caught"); } } }</pre>
□ null ✓ NullPointerException caught □ A runtime exception is thrown and the program crashes □ A compile-time error occurs

Question 2. What is the output of the following code?

```
try {
int a = 5 / 0;
} catch (ArithmeticException e) {
System.out.println("ArithmeticException caught");
ArithmeticException caught
Runtime error
Compilation error
No output
Question 3. What is the difference between a process and a thread?
A process can run on multiple computers, while a thread can only run on a single computer
🗹 A process is a unit of execution that runs independently of other processes, while a thread i
s a unit of execution that shares memory and resources with other threads in the same proces
A process is a unit of execution that shares memory and resources with other processes on
the same computer, while a thread is a unit of execution that runs independently of other threa
ds in the same process
There is no difference between a process and a thread
Question 4. What is the output of the following code?
String str = "Hello";
str.replace("H", "J");
System.out.println(str);
M Hello
Jello
Runtime Error
Compilation error
Question 5. Which of the following is true about interfaces in java.
1) An interface can contain following type of members.
....public, static, final fields (i.e., constants)
 ....default and static methods with bodies
2) An instance of interface can be created.
 3) A class can implement multiple interfaces.
4) Many classes can implement the same interface.

✓ 1 3 and 4.

☐ 2 and 3
\Box 1
□ 2
```