Roll No:	Sessional Test II – MAY, 2023 given in each section.	2022-2023 [Total No. of Pages: 4] Time: 90 minutes Max. Marks: 40
(Q 1	Section – A to 10: Each question carries 1 mark)	
Question 1. Which keyword is ✓ synchronized □ volatile □ static □ final	used to mark a method as synchro	nized in Java?
Question 2. Which of the followard IOException RuntimeException SQLException LogicException	wing is NOT a type of exception in J	Java?
Question 3. What is synchronization in Java multithreading? ✓ It is a way to prevent multiple threads from executing the same code simultaneously. ☐ It is a way to pause a thread's execution for a specified time. ☐ It is a way to check if a thread is still running. ☐ It is a way to set the priority of a thread.		
Question 4. Which of the following statements is true regarding multiple catch clauses in Java? ☐ Multiple catch clauses can be used to catch different types of exceptions. ☐ Multiple catch clauses can be used to catch the same type of exception. ☐ Multiple catch clauses can be used to catch different types of exceptions in the same block. ☑ All of the above.		
Question 5. "java".substring(1) □ j □ a ☑ ava □ jay) will return :	

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Question 6. Two ways to synchronize the threads which are sharing an object are
 Synchronized methods and synchronized class Synchronized methods and synchronized static methods ✓ synchronized methods and synchronized block Synchronized run() and synchronized start()
Question 7. What is the difference between a checked and an unchecked exception in Ja va?
 □ Checked exceptions are checked at compile-time, while unchecked exceptions are checked at runtime. □ Checked exceptions are checked at runtime, while unchecked exceptions are checked at compile-time. ☑ Checked exceptions must be caught or declared in the method signature, while unchecked exceptions do not have to be caught or declared. □ There is no difference between a checked and an unchecked exception.
Question 8. Which method is used to create a new thread in Java?
Question 9. In Java, String is treated as
□ primitive type ✓ object □ wrapper class □ abstract class
Question 10. Which of the following statements are true regarding exceptions in Java?
 □ An exception is an error condition that occurs during program execution. □ An exception can be handled by using try-catch block □ An exception can be thrown using the throw keyword ☑ All of the above
Section – A (Q 11 to 15: Each question carries 2 mark)
Question 11. Which interface is used to create a thread in Java?
✓ Runnable
☐ Threadable ☐ Executable ☐ Processable
Question 12. Find the output of the following program.

```
try {
    String s = null;
    System.out.println(s.length());
} catch (NullPointerException e) {
    System.out.println("Null Pointer Exception");
} catch (Exception e) -
    System.out.println("Exception");
} finally {
    System.out.println("Finally block");
}
Null Pointer Exception Finally block
■ Exception Finally block
Arithmetic Exception Finally block
None of these
Question 13. What will be the output of the following Java code?
abstract class X
    public X()
        System.out.println("ONE");
    abstract void abstractMethod();
class Y extends X
    public Y()
        System.out.println("TWO");
    void abstractMethod()
        System.out.println("THREE");
class MainClass
    public static void main(String[] args)
        X x = new Y();
        x.abstractMethod();
    }
}
TWO THREE ONE
☐ THREE ONE TWO
ONE THREE TWO

✓ ONE TWO THREE

Question 14. Choose the correct statement about StringBuffer and StringBuilder
☐ StringBuffer and StringBuilder both are same
StringBuffer is thread safe but StringBuilder is not thread safe
StringBuffer is not thread safe but StringBuilder is thread safe
```

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□ None of the StringBuffer and StringBuilder is thread safe

Question 15. What will be the output of the following Java code? class Example {
 public static void main(String[] args)
 {
 Thread t1 = new Thread(new MyRunnable());
 Thread t2 = new Thread(new MyRunnable());
 t1.start();
 t2.start();
 }
} class MyRunnable implements Runnable {
 public void run() {
 for (int i = 0; i < 5; i++)
 {
 System.out.print(i);
 }
} }
}

□ 0 0 1 1 2 2 3 3 4 4
 ☑ 0 1 2 3 4 0 1 2 3 4
 ☐ The output cannot be determined