

Abstract Method **Another Method** 

☐Abstract Method

CHITKADA	
UNIVERSITY	2022-2023
Sessional Test II – MAY, 2023  Roll No:  Programme: B.E. (CSE)  Course Title: Core Java  Course Code: CS109	[Total No. of Pages: 4] Time: 90 minutes Max. Marks: 40
<ul><li>General Instructions:</li><li>Follow the instructions given in each section.</li></ul>	
Section – A  (Q 1 to 10: Each question carries 1 mark)  Question 1. Which keyword is used to throw an exception in Jav  throw  catch  try  finally	
Question 2. Which of the following is the correct way of impleme by class manager?	enting an interface salary
☐ class manager imports salary {}  ✓ class manager implements salary {} ☐ class manager extends salary {} ☐ none of the mentioned	
Question 3. What is the output of the following Java program? Nile name: ChildClass.java	Note- Code is saved with f
abstract class MyAbstractClass {    abstract void myMethod();    void anotherMethod() {     System.out.println("Another Method");    }   public class ChildClass extends MyAbstractClass {    void myMethod() {     System.out.println("Abstract Method");   }   public static void main(String[] args) {     ChildClass obj = new ChildClass();    obj.myMethod();    obj.anotherMethod();	
}} □Compilation error □Runtime error	

Question 4. Which method is used to remove a character from a string in Java?

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

□ remove() □ delete() ☑ replace() □ subtract()
Question 5. Predict the output of following Java program class Main { public static void main(String args[]) { try { throw 10; }
catch(int e) { System.out.println("Got the Exception " + e); }}
☐Got the Exception 10 ☐Got the Exception 0  ☐Compiler Error ☐Runtime error.
Question 6. What is the purpose of try-catch block in Java?
<ul> <li>✓ It is used to handle the exceptions thrown by the program.</li> <li>☐ It is used to throw an exception.</li> <li>☐ It is used to catch all the errors that occur during the program execution.</li> <li>☐ None of the above.</li> </ul>
Question 7. An interface in Java can have:  ☐ Both concrete and abstract methods ☐ Only concrete methods ☑ Only abstract methods ☐ None of the above
Question 8. Which method is used to convert a string to lowercase in Java?  ✓ toLowerCase()  toLower()  toCase()  convertToLower()
Question 9. Which of the following classes fail to compile?
<pre>class X { } abstract class Y { } abstract class Z { abstract void method(); }</pre>
☐ Y ☐ Y, Z ☐ X, Y ☐ X, Y, Z ☑ All classes compile
Question 10. Which method is used to concatenate two strings in Java?  ☐ append() ☑ concat() ☐ join()

add()

## Section – B (Q 11 to 15: Each question carries 2 mark)

Question 1. What is a race condition in multithreading?

- A situation in which two or more threads access shared data and try to modify it at the same time, resulting in unpredictable behavior
- A situation in which two or more threads try to acquire the same resource, resulting in a deadlock
- A situation in which two or more threads try to execute the same code at the same time, resulting in a race to the finish
- A situation in which a thread blocks another thread from executing, resulting in poor performance

Question 2. Which of the following is the result of the below program?

```
class SimpleTest {
    public static void stringReplace(String str) {
        str = str.replace('c', 'c');
    }
    public static void bufferReplace(StringBuffer str) {
        str.trimToSize();
    }
    public static void main(String args[]) {
        String myString = new String("cplus");
        StringBuffer myBuffer = new StringBuffer(" plus");
        stringReplace(myString);
        bufferReplace(myBuffer);
        System.out.println(myString + myBuffer);
    }
}
```

cplusplus

plus plus

🗹 cplus plus

c plus plus

Question 3. What will be the output of the following Java program?

```
class Exception{
    public static void main(String args[])
        try
        {
            int a, b;
            b = 0;
            a = 5 / b;
            System.out.print("A");
        catch(ArithmeticException e)
        {
            System.out.print("B");
        finally
        {
                     System.out.print("C");
        }
              } }
```

□ B □ AC □ BC
<b>Question 4.</b> Below class ABC doesn't have even a single abstract method, but it has been declared as abstract. Is it correct?
<pre>abstract class ABC {     void firstMethod()     {         System.out.println("First Method");     }     void secondMethod()     {         System.out.println("Second Method");     } }</pre>
Yes No NULL Compilation Error Question 5. Predict the output of the following program.
<pre>class Test {    public void demo(String str)    {       String[] arr = str.split(";");       for (String s : arr)        {             System.out.println(s);         }    } }</pre>
<pre>public static void main(String[] args) {     char array[] = {'a', 'b', ' ', 'c', 'd', ';', 'e', 'f', ' ',</pre>
✓ ab cd ef gh ij kl ☐ ab ☐ ab cd ☐ None