CHITKARA
UNIVERSITY

2022-2023

Sessional Test II – MAY, 2023

Roll No: ………………   [Total No. of Pages: 4]
Programme: B.E. (CSE)   **Time: 90 minutes**
Course Title: Core Java
Course Code: CS109   **Max. Marks: 40**

General Instructions:
● Follow the instructions given in each section.

Section – A
(Q 1 to 10: Each question carries 1 mark)

Question 1. What will be the output of the following program?

```java
public class mcq
{
        public static void main(String[] args) {
                char ch = 68;
                System.out.println("character = " + ch);
        }
}
```

☐ character = 65
☐ Compilation Error
☑ character = D
☐ Runtime error

Question 2. What is the purpose of the import statement in Java?

☑ To import a package into a Java program
☐ To create a new package in Java
☐ To define a new class in Java
☐ To extend a class in Java

Question 3. Compile time error will occur in which method?

```java
public class Test {
   public static void main(String[] args) {
      m1();
   }
   public static void m1() {
      m2();
   }
   public static void m2()
    throws InterruptedException {
      Thread.sleep(1000);
   }
}
```

☐ main()
☑ m1()
☐ m2()
☐ Compiled Successfully

Question 4. Which of the following is the correct syntax for using multiple catch blocks in Java?

☑ try { } catch (Exception1 e) { } catch (Exception2 e) { }
☐ try (Exception1 e) { } catch (Exception2 e) { }
☐ catch (Exception1 e) { } try { } catch (Exception2 e) { }
☐ try { } catch (Exception1 | Exception2 e) { }

Question 5. Which type of exception is checked at compile time?

☑ Checked exceptions
☐ Unchecked exceptions
☐ Runtime exceptions
☐ Errors

Question 6. Which class is used to create a mutable string in Java?

☐ String
☐ ImmutableString
☑ StringBuilder
☐ StringTokenizer

Question 7. Which of the following classes fail to compile?

```
class X { }
abstract class Y { }
class Z { abstract void method(); }
```

☐ X
☐ X, Y, Z
☐ Y
☑ Z

Question 8. Which of the following is a method of the StringBuffer class in Java?

☑ append()
☐ equals()
☐ length()
☐ toLowerCase()

Question 9. Which method is used to convert a string to uppercase in Java?

☑ toUpperCase()
☐ toUpper()
☐ upperCase()
☐ convertToUpper()

Question 10. Which method is used to compare two strings in Java?

☑ equals()
☐ compare()
☐ compareTo()
☐ Check()

Section – B
(Q 11 to 15: Each question carries 1 mark)

Question 11. What will be the output of the following Java program?

```
class Exception {
    public static void main(String args[])
```

```
{
    try
    {
        System.out.print("Hello" + " " + 1 / 0);
    }
    catch(ArithmeticException e)
    {
        System.out.print("World");
    }
} }
```

- ☐ Hello
- ☑ World
- ☐ HelloWorld
- ☐ Hello World

Question 12. Choose the correct statement
- ☐ wait() can only be called from static methods
- ☐ wait() can only be called from method "public void run()"
- ☑ wait() can only be called from synchronized methods.
- ☐ wait() can be called only once on an object.

Question 13. Which of the following methods can be used to compare two String objects for eq uality in Java?
- ☑ equals()
- ☐ compareTo()
- ☐ contains()
- ☐ concat()

Question 14.
Score : 2/2Time spent:24 sec
What will be the output of the following code?
```
public class MCQ extends Thread {
    public void run() {
        System.out.println("Thread is running");
    }
    public static void main(String[] args)
    {
        MCQ t1 = new MCQ();
        t1.start();
    }}
```
- ☑ Thread is running
- ☐ Compiler error
- ☐ Runtime error
- ☐ No output

Question 15. What will be the output of following Java coding snippet?
```
import java.io.CharArrayReader;
import java.io.IOException;
class TestApp {
    public static void main(String[] args) {
        String obj = "abcdef";
        int length = obj.length();
        char c[] = new char[length];
```

```
        obj.getChars(0, length, c, 0);
        CharArrayReader io_1 = new CharArrayReader(c);
        CharArrayReader io_2 = new CharArrayReader(c, 0, 3);
        int i;
        try {
            while ((i = io_2.read()) != -1) {
                System.out.print((char) i);
            }
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

- ☑ abc
- ☐ abcd
- ☐ abcde
- ☐ abcdef