

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. Which keyword is used to define an abstract method in Java?

- ☒ abstract
- ☐ final
- ☐ static
- ☐ public

Question 2. Which keyword is used to declare an interface in Java?

- ☒ interface
- ☐ class
- ☐ abstract
- ☐ public

Question 3. What is the output of the following code snippet?

```
StringBuffer sb = new StringBuffer("Hello");  
StringBuilder sb1 = new StringBuilder("World");  
sb.append(sb1);  
System.out.println(sb);
```

- ☒ HelloWorld
- ☐ Hello World
- ☐ WorldHello
- ☐ Compilation Error

Question 4. Which keyword is used to declare an abstract class in Java?

- ☒ abstract
- ☐ class
- ☐ public
- ☐ final

Question 5. Which of the following is NOT a state of a thread in Java?

- ☐ Running
- ☐ Sleeping
- ☐ Terminated

☒ Suspended

Question 6. Which of the following is NOT a valid type of exception in Java?

- ☐ Checked Exception
- ☒ Unchecked Exception
- ☐ Error
- ☐ Exceptional Exception

Question 7. Which of the following statements is true about the finally block in Java?

- ☒ The finally block is always executed, regardless of whether an exception is thrown.
- ☐ The finally block is only executed if an exception is thrown.
- ☐ The finally block is optional in Java.
- ☐ The finally block cannot be used in Java.

Question 8. Which method is used to get the length of a string in Java?

- ☒ length()
- ☐ size()
- ☐ count()
- ☐ capacity()

Question 9. What is the output of the following Java program?

```
interface MyInterface {
    default void defaultMethod() {
        System.out.println("Default Method");
    }

    static void staticMethod() {
        System.out.println("Static Method");
    }
}

public class ChildClass implements MyInterface {
    public static void main(String[] args) {
        ChildClass obj = new ChildClass();
        obj.defaultMethod();
        MyInterface.staticMethod();
    }
}
```

- ☐ Compilation error
- ☐ Runtime error
- ☒ Default Method Static Method
- ☐ Default Method

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

- ☒ equals()
- ☐ compare()
- ☐ compareTo()
- ☐ equalsIgnoreCase()

Section – B

(Q 11 to 15: Each question carries 2 mark)

Question 11. What is the output of the following code?

```
interface MyInterface {  
    default void myMethod() {  
        System.out.println("Hello");  
    }  
}  
class MyClass implements MyInterface {  
    public void myMethod() {  
        System.out.println("Hi");  
    }  
}  
public class Main {  
    public static void main(String[] args) {  
        MyClass obj = new MyClass();  
        obj.myMethod();  
    }  
}
```

- ☐ Hello
- ☒ Hi
- ☐ Compilation Error
- ☐ Runtime Exception

Question 2. What will be the output of the following code?

```
import java.util.*;  
public class Test  
{  
    public static void main(String[] args)  
    {  
        Object obj = "String";  
        System.out.print(obj.toString().toString());  
    }  
}
```

- ☐ toString()
- ☐ obj
- ☐ String[String]
- ☒ String

Question 3. Which of the following is NOT a state of a thread in Java?

- ☐ Blocked
- ☐ Waiting
- ☐ Sleeping
- ☒ Finished

Question 4. What will be the output of the following Java Program?

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

```
try
{
    int i, sum;
    sum = 10;
    for (i = -1; i < 3 ;++i)
        sum = (sum / i);
}
catch(ArithmeticException e)
{
    System.out.print("0");
}
System.out.print(sum);
}
```

- ☐ 0
☐ 5
☒ Compilation Error
☐ Runtime Error

Question 5. Which of the following statements is true about multiple catch clauses in Java?

- ☐ Only one catch block can be used in a try-catch statement.
☒ Multiple catch blocks can be used in a try-catch statement, but they must be ordered from most specific to least specific.
☐ Multiple catch blocks can be used in a try-catch statement, but they must be ordered from least specific to most specific.
☐ Multiple catch blocks can be used in a try-catch statement, and their order does not matter.