

Registration No.: 218 (CON 67)

JECRC UNIVERSITY

End Term Examination July 2022

II Semester B.Tech. CSE

Subject: Programming in JAVA

Subject Code: DCO003A

Time: 3.00hrs

Instructions:

1. Attempt all the questions.
2. Illustrate your answers with suitable examples and diagrams, wherever necessary.
3. Write relevant question numbers before writing the answer.

Maximum Marks: 100

Section - A (Objective) (10*1=10 Marks)

1. [CO3] Which of the following is a type of polymorphism in Java Programming?
- a) Multiple polymorphism
 - b) Compile time polymorphism
 - c) Multilevel polymorphism
 - d) Execution time polymorphism

2. [CO3] What will be the output of the following Java code?
- ```
class exception_handling
```

```
{
 public static void main(String args[])
 {
 try
 {
 System.out.print("Hello" + " " + 1 / 0);
 }
 finally
 {
 System.out.print("World");
 }
 }
}
```

- a) Hello      b) World      c) Compilation Error      d) First Exception then World

3. [CO3] Which of these handles the exception when no catch is used?
- a) Default handler
  - b) finally
  - c) throw handler
  - d) Java run time system

4. [CO3] Which of these class is related to all the exceptions that are explicitly thrown?
- a) Error
  - b) Exception
  - c) Throwable
  - d) Throw

5. [CO1] Which of the following is a valid long literal?
- a) ABH8097
  - b) L990023
  - c) 904423
  - d) 0xnf029L

6. [CO1] Which keyword is used by the method to refer to the object that invoked it?
- a) import
  - b) catch
  - c) abstract
  - d) this

7. [CO4] Which of these classes are used by character streams for input and output operations?
- a) InputStream
  - b) Writer
  - c) ReadStream
  - d) InputOutputStream

8. [CO5] What does AWT stands for?
- a) All Window Tools
  - b) All Writing Tools
  - c) Abstract Window Toolkit
  - d) Abstract Writing Toolkit

9. [CO4] Which of these class is not related to input and output stream in terms of functioning?
- a) Fil
  - b) Writer
  - c) InputStream
  - d) Reader

10. [CO5] Which of this method can be used to make the main thread to be executed last among all the threads?
- a) stop()
  - b) sleep()
  - c) join()
  - d) call()

**Section - B (Very Short Answers) (5\*2=10 Marks)**

1. [CO1] What is java byte code interpretation.
2. [CO2] Define abstract class and its uses.
3. [CO3] State differences between throw and throws.
4. [CO4] Define character oriented stream.
5. [CO5] WAP to demonstrate an applet in java.

**Section - C (Short Answers) (5\*6=30 Marks)**

1. [CO1] WAP to demonstrate logical operators in java.
2. [CO2] Define Interface with programming examples.
3. [CO3] WAP to demonstrate try catch in exception handling.
4. [CO4] Write a program to read all characters from file.
5. [CO5] State difference between AWT and Swing.

**Section - D (Long Answers) (2\*10=20 Marks)**

1. [CO1] Explain features of java in with example.
2. [CO2] Multiple inheritance is not supported through class in java, but it is possible by an interface? Justify this statement with valid programming examples.
3. [CO3] What is exception handling in java, state differences between final, finally and finalize.

**Write Short Notes On:**

- A) FileReader
  - B) FileWriter
  - C) FileInputStream
  - D) FileOutputStream
5. WAP to create a GUI using Frame in AWT by using
- a) By extending Frame class (inheritance)
  - b) By creating the object of Frame class (association)