```
Second In Sem Examination June 2022
                             II Semester B.Tech. CSE
                            Subject: Programming in JAVA
                                SubjectCode:DCO002A
                                                                 MaximumMarks:50
Time: 1.30hrs
Instructions:
     1. Attemptallthequestions.
     2. Illustrateyouranswerswithsuitableexamplesanddiagrams, wherevernecessary
     3. Writerelevantquestionnumbersbeforewritingtheanswer.
Section-
A(Objective)(10*1=10Marks)
 1. [CO3] What will be the output of the following Java code?
   class increment {
     public static void main(String args[])
        int g = 3:
        System.out.print(++g * 8);
                b) 33
                                                 d) 25
a) 32
                                c) 24
2.[CO3] Which of the following is not an OOPS concept in Java?
a) Polymorphism
                    - b) Inheritance c) Compilation d) Encapsulation
 3. [CO4] What will be the output of the following Java program?.
   class Output
      public static void main(String args[])
        int arr[] = {1, 2, 3, 4, 5};
        for ( int i = 0; i < arr.length - 2; ++i)
         System.out.println(arr[i] + " ");
a) 12345
                         b) 1234
                                          c) 12
                                                           d) 123
4.[CO3] Which of these keywords is used to define interfaces in Java?
                b) Intf
                                 c) interface
                                                           d) Interface
5. [CO3] Which of these keywords can be used to prevent Method overriding?
a) static
                b) constant
                                 c) protected
                                                  d) final
6. [CO4] Which keyword is used by the method to refer to the object that involved it?
```

c) abstract

JECRCUNIVERSITY

Registration No -: 3\BCON677

a) import

b) catch

```
a) java.lang
                b) Exception
                                            c) RunTime
                                                                       d) System
8. [CO4] In character stream I/O, a single read/write operation performs
a)Two bytes read/write at a time.
                                            b) Eight bytes read/write at a time.
c) One byte read/write at a time.
                                            d) Five bytes read/ write at a time.
9. [CO4] Which of these class is not related to input and output stream in terms of functioning?
                 b) Writer .
a) Fil
                                            c) InputStream
                                                                       d) Reader
 10. [CO3] Which of the following is the correct way of importing an entire package 'pkg'?
 a) import pkg. b) Import pkg.
                                             c) import pkg.*
                                                                        d) Import pkg.*
 Section-B (VeryShortanswers)(4*2=8Marks)
 1.[CO3] What is finalize() method
2:[CO3] How many public class can occur in a single java source file.
3.[CO4] Define System.err in java.
4.[CO4] Define stream in java
 Section -C (Short Answers)(2*6=12 Marks)
14(CO3) What is the output of following java code justify with valid reasons
 class Animal
          Animal() {
                System.out.println("animal is created");
  class Dog extends Animal
         · Dog() {
                   this();
                   super();
                   System.out.println("dog is created");
  class TestSuper3
          public static void main(String args[]) {
                   Dog d=new Dog0;
 2.[CO4]WAP to read a single character from file using FileInputStream class.
  Section -D (LongAnswers)(2*10=20 Marks)
 1. Define try; catch, throw and finally with example.
-2. How can we implement Multiple inheritance in java explain with proper example.
```

```
Registration No -: 21 BLON 677
                                                                                               6. [CO1] Which keyword is used by the method to refer to the object that invoked it?
                           JECRC UNIVERSITY
                                                                                               a) import
                                                                                                             b) catch
                                                                                                                                     c) abstract
                                                                                                                                                             d) this
                          End Term Examination July 2022
                                                                                               7. [CO4] Which of these classes are used by character streams for input and output
                             · II Semester B.Tech. CSE
                                                                                               operations?
                             Subject: Programming in JAVA
                                                                                                                                                             d) InputOutputStream
                                                                                               a) InputStream
                                                                                                                     b) Writer
                                                                                                                                     c) ReadStream
                                 Subject Code: DCO003A
   Time: 3.00hrs
                                                                 MaximumMarks:100
                                                                                               8. [CO5] What does AWT stands for?
   Instructions:
                                                                                               a) All Window Tools
                                                                                                                                     b) All Writing Tools
          Attempt all the questions.
                                                                                               c) Abstract Window Toolkit
                                                                                                                                     d) Abstract Writing Toolkit
          Illustrate your answers with suitable examples and diagrams, wherever necessary.

Write relevant question numbers before writing the answer.
                                                                                               9. [CO4] Which of these class is not related to input and output stream in terms of
                        Section- A (Objective) (10*1=10Marks)
                                                                                               functioning?
  1. [CO3] Which of the following is a type of polymorphism in Java Programming?
                                                                                               a) Fil
                                                                                                                     b) Writer
                                                                                                                                     c) InputStream
                                                                                                                                                             d) Reader
                                        b) Compile time polymorphism
  a) Multiple polymorphism
                                                                                             (10.) CO5] Which of this method can be used to make the main thread to be executed
                                        d) Execution time polymorphism
  c) Multilevel polymorphism
                                                                                               last among all the threads?
  2.[CO3] What will be the output of the following Java code?
                                                                                               a) stop()
                                                                                                                     b) sleep()
                                                                                                                                                             d) call()
                                                                                                                                     c) join()
    class exception_handling
                                                                                                                Section-B (Very Short Answers) (5*2=10Marks)
                                                                                              1. [CO1] What is java byte code interpretation.
      public static void main(String args[])
                                                                                              2. [CO2] Define abstract class and its uses.
                                                                                              3. [CO3] State differences between throw and throws.
                                                                                              1. [CO4] Define character oriented stream.
                                                                                               5.[CO5] WAP to demonstrate an applet in java.
               System.out.print("Hello" + " " + 1 / 0):
                                                                                                                  Section -C (Short Answers) (5*6=30 Marks)
                                                                                              1. [CO1] WAP to demonstrate logical operators in java.
                                                                                               2. [CO2] Define Interface with programming examples.
        finally
                                                                                               3. [CO3] WAP to demonstrate try catch in exception handling.
        {
                                                                                              4. [CO4] Write a program to read all characters from file.
               System.out.print("World");
                                                                                              _5r[CO5] State difference between AWT and Swing.
        1
                                                                                                                  Section -D (Long Answers) (2*10=20 Marks)
                                                                                               (CO1]Explain features of java in with example.
                                                                                              [CO2]Multiple inheritance is not supported through class in java, but it is possible
a) Hello
               b) World
                               c) Compilation Error
                                                       d) First Exception then World
                                                                                               by an interface? Justify this statement with valid programming examples.
3. [CO3] Which of these handles the exception when no catch is used?
                                                                                               3/[CO3] What is exception handling in java, state differences between final, finally
a) Default handler
                      b) finally
                                       c) throw handler
                                                                d) Java run time system
                                                                                               and finalize.
                                                                                             Write Short Notes On:
A) FileReader B) FileWriter
4.[CO3] Which of these class is related to all the exceptions that are explicitly thrown?
                                                                                                                                    C) FileInputStream
                                                                                                                                                              D) FileOutputStream
a) Error
              b) Exception
                                      c) Throwable
                                                                d) Throw
                                                                                              5. WAP to create a GUI using Frame in AWT by using
5. [CO1] Which of the following is a valid long literal?
                                                                                                a) By extending Frame class (inheritance)
a) ABH8097
                      b) L990023
                                                                                                b) By creating the object of Frame class (association)
                                               c) 904423
                                                                        d) 0xnf029L
```