



**B.Tech IV Semester Regular Examinations, July 2022**

**JAVA PROGRAMMING**

(Information Technology)

**Maximum Marks: 70**

Date:28.07.2022 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
  2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
  3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
  4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 List any two disadvantages of OOP.
- 2 Define constructor.
- 3 What is a package?
- 4 Differentiate Method Overloading and Method Overriding.
- 5 Distinguish between exception and error.
- 6 What are the different ways to create a thread?
- 7 Define Collections.
- 8 Predict the output for the following code:  

```
public class hashSet {  
    public static void main(String[] args)  
    {  
        HashSet<String> hashSet = new HashSet<>();  
        hashSet.add("Geeks");  
        hashSet.add("For");  
        hashSet.add("Geeks");  
        hashSet.add("GeeksforGeeks");  
        System.out.println(hashSet);  
    }  
}
```
- 9 What is an event?
- 10 Distinguish between swings and AWT.

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 Explain any three OOPs concepts with examples. [10]

OR

- 12 Write a program to accept a number from the command line and generate the Fibonacci series of the given number. [10]

13 Explain about packages. Give an example program that uses packages. [10]

OR

14 Write a java program that reads person details such as name, age, gender, and address using IO Streams and check for the eligibility to vote. Use two methods readData() to get the age and Eligibility() to check the Eligibility of Vote. [10]

15 Explain exception and discuss try and catch statements with example. [10]

OR

16 Write a java program to create your exception for Negative Value Exception if the user enters a negative value. [10]

17 Explain the concept of the Java collection frame. Write a brief overview of it. [10]

OR

18 Create a java program to maintain n patient records which include patient name, patient id, address, and phone number as an object into the ArrayList. Sort the records and display the records in reverse order. [10]

19 List out the applet's life cycle methods and explain them. [10]

OR

20 Design an applet window and implement a mouse event that showcases all the events that are present in java.awt package. [10]