

R18 Regulation

Subject code: 206DC



TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VI Semester Supplementary Examinations, June/July 2023

OOPs through JAVA

(Electronic and Communication Engineering)

Maximum Marks: 70

Date:03.07.2023 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.

Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(2X10M=20Marks)

- 1 What is an Object?
- 2 State the features of object-oriented programming?
- 3 When do we declare a class or method final?
- 4 What is meant by interface?
- 5 In how many ways a thread can be created. Explain?
- 6 Write the usage of try and catch?
- 7 What is java collection framework?
- 8 Define ArrayList with syntax.
- 9 Write about Adapter classes?
- 10 What are the limitations of AWT

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 a) Discuss the advantages and disadvantages of Object-Oriented Programming. [7]
b) Write a Java program to find whether given number is prime or not. [3]
- OR
- 12 Write a java program to simulate the operation of numerical calculator to perform the functions Addition (+), Subtraction (-), Multiplication (*) and Division (/). [10]
 - 13 Discuss about the FileInputStream and FileOutputStream in java with examples. [10]
- OR
- 14 How to create packages and use them in java? [10]
 - 15 What is an exception? Explain exception handling in java with examples. [10]
- OR
- 16 What are the different ways to handle exceptions? Explain. [10]
 - 17 Differentiate between ArrayList and a Vector? Why ArrayList is faster than Vector? Explain.[10]

OR

18 What is the Collection framework in Java? What are the main differences between array and collection? [10]

19 List and explain different types of Layout managers with suitable examples. [10]

OR

20 a) What are the different types of Event listeners supported by java.

b) How to access the inner class from code within the outer class?

[5+5]