



R17 Regulation

**TKR COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous, Accredited by NAAC with 'A' Grade)

Subject code:108DA

## B.Tech IV Year II Semester Supplementary Examinations, July 2022

### OBJECT ORIENTED PROGRAMMING THROUGH JAVA (Electronics and Communication Engineering)

Maximum Marks: 70

Date: 20.06.2022 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 Define abstract class?
- 2 Define Inheritance?
- 3 Define a Package?
- 4 Define Interface?
- 5 Write the life cycle of a thread?
- 6 What is the difference between error and an exception?
- 7 What is the purpose of String Tokenizer class? Explain.
- 8 What is the significance of Legacy class? Give example.
- 9 What are the limitations of AWT?
- 10 Define Applet? What are the security issues of applets?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Define inheritance. What are the benefits of inheritance? What costs are associated with inheritance? [10]  
OR
- 12 A. What is the purpose of constructor in Java programming? [5]  
B. What are the responsibilities of an agent? [5]
- 13 Explain the process of defining and creating a package with suitable examples. [10]  
OR
- 14 A. Discuss the different levels of access protection available in Java. [5]  
B. Explain Serialization and Enumerations clearly. [5]
- 15 Write a program to create three threads in your program and context switch among the threads using sleep functions. [10]  
OR
- 16 What are advantages of using Exception handling mechanism in a program? [10]
- 17 What is Java Collections Framework? List out some benefits of Collections framework and explain. [10]  
OR
- 18 What is difference between ArrayList and LinkedList in collection framework? Explain. [10]
- 19 Explain clearly about MVC architecture in detail. [10]  
OR
- 20 What is an Applet? Explain the life cycle of Applet with a neat sketch. [10]