



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 2022

OBJECT ORIENTED PROGRAMMING through JAVA
(ECE)

Maximum Marks: 70

Date: 22.06.2022 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.
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 (10X2=20 Marks)

- 1 What is Object Oriented Programming? How it is different from Procedural concepts?
- 2 What is abstract class?
- 3 Write about packages in java?
- 4 Explain about nested interfaces?
- 5 state the purpose of keyword "throws"?
- 6 Explain about thread priorities?
- 7 Difference between Array and ArrayList?
- 8 Discuss about Iterator?
- 9 List the types of layout available in java?
- 10 List the types of Delegation Event models in java?

Part-B

Answer All the following questions. (10X5=50 Marks)

- 11 a) "Java is called Machine Independent Language"-Justify. [5]
b) Write short note on i) Encapsulation ii) Polymorphism [5]
OR
- 12 a) What is Inheritance? Explain different types of inheritance supported by java with example?
b) Write a Java program to check whether a given number is palindrome or not? [5+5]
- 13 a) How to extend one interface by the other interface? Explain with an example.
b) What is the major difference between an interface and class? [7+3]
OR
- 14 a) Write a java program for finding Prime number using Console class? [5+5]
b) What are Stream classes? Explain different types of Stream classes.
- 15 a) Illustrate different types of Built-in Exceptions in java?
b) Write a java program to create own exceptions. [5+5]
OR
- 16 a) Write about inter thread communication in java with an example.
b) What is synchronization and why is it important? [5+5]

17 What is Java Collections Framework? List out some benefits of Collections framework and explain.
[10]

OR

18 a) Explain the Bit Set and Calendar classes in detail.
b) Discuss the differences between HashList and HashMap, Set and List. [5+5]

19 Write a detailed note on MVC architecture. Discuss its advantages and disadvantages. [10]

OR

20 a) Discuss in detail the limitations of AWT.
b) Discuss about different Event classes. [5+5]