



R18 Regulation

Subject code:206DC

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

B.Tech VI Semester Supplementary Examinations, May 2025
OBJECT ORIENTED PROGRAMMING THROUGH JAVA
(ECE)

Maximum Marks: 70

Date: 25.06.2025

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 (10X2M=20 Marks) | | Marks | CO | BTL |
|--|---|-------|----|-----|
| 1 | What is Object Oriented Programming? | 2M | 1 | L1 |
| 2 | What is abstract class? | 2M | 1 | L1 |
| 3 | Write about packages in java? | 2M | 2 | L1 |
| 4 | What is meant by interface? | 2M | 2 | L1 |
| 5 | In how many ways a thread can be created. | 2M | 3 | L1 |
| 6 | Write the usage of try and catch? | 2M | 3 | L1 |
| 7 | Which methods of deque enable it to be used as a stack? | 2M | 4 | L1 |
| 8 | Make a comparison of List, array and ArrayList. | 2M | 4 | L1 |
| 9 | Give the AWT hierarchy. | 2M | 5 | L1 |
| 10 | What is an Event? | 2M | 5 | L1 |

Part-B

| Answer All the following questions. (5X10M=50Marks) | | Marks | CO | BTL |
|---|---|----------|----|-----|
| 11 | a) What is the purpose of constructor in Java programming? b) What is synchronization? What is the purpose of the Synchronization? | 5M 5M | 1 | L2 |
| OR | | | | |
| 12 | a) Describe the structure of a typical Java program with an example. b) Write the significance of Java Virtual Machine. | 5M 5M | 1 | L2 |
| 13 | Discuss about the FileInputStream and FileOutputStream in java with examples. | 10M | 2 | L2 |
| OR | | | | |
| 14 | a) Write an example program to show the calling sequence of constructors. b) How to create packages and use them in java? | 5M 5M | 2 | L2 |
| 15 | a) Illustrate different types of Built Exceptions in java? b) Write a java program to create own exceptions. | 5M 5M | 3 | L2 |
| OR | | | | |
| 16 | a) Write about inter thread communication in java with an example. b) What is synchronization and why is it important? | 5M 5M | 3 | L2 |

| | | | | |
|----|--|----------|---|----|
| 17 | a) Differentiate between ArrayList and a Vector? Why ArrayList is faster than Vector? Explain. b) How an Hashtable can change the iterator? Explain. | 5M 5M | 4 | L2 |
| | OR | | | |
| 18 | a) What is the Collection framework in Java? What are the main differences between array and collection? b) <u>How to sort ArrayList in descending order?</u> | 5M 5M | 4 | L2 |
| 19 | a) What is Anonymous inner class? Explain with an example. b) What are the advantages and disadvantages of Inner classes? | 5M 5M | 5 | L2 |
| | OR | | | |
| 20 | a) How to access the inner class from code within the outer class? b) What are the Advantages of The Event-delegation Model over The Event-inheritance Model? | 5M 5M | 5 | L2 |