



R18 Regulation

Subject code: 205DF

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech V Semester Supplementary Examinations, July 2022
OBJECT ORIENTED PROGRAMMING THROUGH JAVA
(ECE)

Maximum Marks: 70

Date:07.07.2022 Duration: 3 hours

Part-A

All the following questions carry equal marks

(10x2M=20 marks)

- 1 Explain how Java is platform independent.
- 2 Differentiate between print() and println() methods in Java.
- 3 What are the methods available in the character streams?
- 4 What is the significance of the CLASSPATH environment variable in creating/using a package?
- 5 What is synchronization and why is it important?
- 6 What is the difference between error and an exception?
- 7 What is the benefit of Generics in Collections Framework?
- 8 Explain the use of layout managers.
- 9 Give the AWT hierarchy.
- 10 What is an Event?

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 a) Explain different parts of a Java program with an appropriate example.
b) How does polymorphism promote extensibility? Explain with example. [5+5]
OR
- 12 a) How do we implement polymorphism in JAVA? Explain briefly.
b) What is an array? How do you declare the array in java? Give example [5+5]
- 13 a) What are the methods available in the Character Streams?
b) Distinguish between Byte Stream Classes and Character Stream Classes [5+5]
OR
- 14 Write a program to demonstrate hierarchical and multiple inheritance using interfaces. [10]
- 15 a) Differentiate between Checked and Unchecked Exceptions with examples.
b) Write a program to create four threads using Runnable interface. [5+5]

OR

- 16 a) What is an Exception? How is an Exception handled in JAVA?
b) Write a java program that illustrates the application of multiple catch statements [5+5]
- 17 a) What are similarities and difference between ArrayList and Vector? Explain.
b) What is difference between Iterator and ListIterator? Explain different ways to iterate over a list.
[5+5]

OR

- 18 a) What are the best practices related to Java Collections Framework? Discuss
b) What is Comparable and Comparator interface? Differentiate between them. [5+5]
- 19 a) Explain various layout managers in JAVA.
b) What are the different types of Event listeners supported by java. [5+5]

OR

- 20 a) Discuss about different applet display methods in brief.
b) Write a java program to design a scientific calculator using AWT. [5+5]