



R18 Regulation

Subject code:2P3FD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech III Semester Supplementary Examinations, March/April 2023

**OBJECT ORIENTED PROGRAMMING
INFORMATION TECHNOLOGY**

Maximum Marks: 70

Date:04.04.2023 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 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 Polymorphism.
- 2 List different types of data types in java?
- 3 How we implement an interface.
- 4 Define a package.
- 5 What are the two ways of creating a thread in java?
- 6 Differentiate between error and exception.
- 7 Define hash table.
- 8 What is the difference between array and vector?
- 9 Write two key features of swing.
- 10 Define Event.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 A. Explain History and Evolution of Java.
B. Summarize the control statements in java. [5+5]
OR
- 12 A. Explain various forms of inheritance with suitable code segments.
B. What is method overriding? Illustrate the concepts of method overriding with an example. [5+5]
- 13 A. Discuss the significance of the CLASSPATH environment variable in creating or using a package?
B. Demonstrate how interfaces are defined and implemented. [5+5]
OR
- 14 A. Describe various levels of access protections available for packages
B. What is a stream? Explain Byte Stream and Character Stream. [5+5]
- 15 A. Explain thread priority. Write a program to demonstrate get Priority () and set Priority () methods.
B. Differentiate between Checked and Unchecked exceptions. [5+5]

OR

- 16 A. Write a java program which illustrates the try, catch, throw and throws and finally blocks.
B. Distinguish between thread and process? Discuss how a thread is created. [5+5]
- 17 A. Discuss about iterator with an example.
B. Demonstrate about stack class with an example. [5+5]
- OR
- 18 A. Illustrate about String Tokenizer class with an example.
B. Explain the concept of Java collection frame. Write a brief overview on it. [5+5]
- 19 A. What is the significance of layout managers? Discuss briefly various layout managers.
B. Outline the various event listener interfaces. [5+5]
- OR
- 20 A. Explain the life cycle of an applet.
B. Demonstrate in detail about AWT class hierarchy. [5+5]