



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 2P3ED

B.Tech III Semester Regular/Supplementary Examinations, February 2021

**OBJECT ORIENTED PROGRAMMING**

(Computer Science and Engineering)

Maximum Marks: 70

Date: 24.02.2021 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 List the advantages and disadvantages of OOP?
- 2 What is meant by ad-hoc polymorphism?
- 3 What is Console class? What is its use in java?
- 4 Differentiate between interfaces and Abstract classes?
- 5 Write the usage of throw, throws and finally?
- 6 Define Inter thread communication?
- 7 What is a Collection Class? Give an example.
- 8 Write the function of StringTokenizer?
- 9 Describe events for handling mouse events?
- 10 Define priority queue?

**Part-B**

Answer All the following questions.

(10MX 5=50Marks)

- 11 A. Explain the structure of JAVA program with suitable example. (5M)  
B. What is polymorphism? Explain different types of polymorphisms in Java. (5M)

OR

- 12 A. Discuss about String Handling methods in java? (5M)  
B. Define constructor and super keyword? Write a sample java program using constructors and super key word? (5M)

- 13 A. Define interface? List out the differences between classes and interfaces? (5M)  
B. Explain the process of defining and creating packages with suitable examples. (5M)

OR

- 14 A. What are the methods available in the Character Streams and Byte Streams? Discuss. (5M)  
B. Describe methods in console class and write a sample program by using console class? (5M)

- 15 A. Explain about Exception handling mechanism in JAVA? (5M) [5+5]  
B. Distinguish between thread-based multitasking and process-based multitasking?  
(5M)
- OR
- 16 A. Explain JAVA Thread model? (5M)  
B. Write a java program that illustrates the application of multiple catch statements.  
(5M)
- 17 A. Write the java collection frame work with example? (5M)  
B. Differentiate between ArrayList and LinkedList in collection framework. (5M)
- OR
- 18 A. List the differences between Iterator and ListIterator? (5M)  
B. Discuss Random class with example? (5M)
- 19 A. Explain various layout managers in JAVA. (5M)  
B. Write a short note on delegation event model. (5M)
- OR
- 20 A. Discuss about Inner classes, Anonymous Inner classes with example? (5M)  
B. Explain JAVA ActionListener with program. (5M)