



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 2P3ED

B.Tech III Semester supplementary examination, March/April 2023

OBJECT ORIENTED PROGRAMMING (COMPUTER SCIENCE & ENGINEERING)

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 What is the difference between a class and an object.
- 2 List the applications of object oriented programming.
- 3 What is a package? How to define it and access it.
- 4 List out the benefits of Stream oriented I/O.
- 5 Differentiate between error and exception
- 6 List any four unchecked exception.
- 7 What is a Collection Class? Give an example
- 8 Differentiate between Enumeration and Iterator interface
- 9 What are the limitations of AWT
- 10 Differentiate between GridLayout and BorderLayout.

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 a) Discuss the benefits of inheritance
b) Make a comparison of procedural programming paradigm with object oriented programming paradigm. 5M
- OR 5M
- 12 Give the syntax of various control statements used in Java programs and explain them 10M
- 13 How to create and access packages in JAVA? Illustrate briefly. 10M
- OR 10M
- 14 Explain nested interfaces with an example JAVA program. 10M
- 15 a) What are the uses of 'throw' and 'throws' clauses for exception handling. 5M
b) What is the difference between a thread and a process. 5M
- OR
- 16 Demonstrate exception handling mechanism with 'try-catch-finally' blocks with an example JAVA program. 10M
- 17 a) What is the importance of hashCode() and equals() methods. 5M
b) Explain about Collection interface and its methods. 5M

OR

- 18 a) What is difference between ArrayList and LinkedList in collection framework. 5M
b) How to implement ArrayList in Java with examples. 5M
- 19 a) Explain about MVC architecture. 5M
b) What is a Layout manager? Explain different types of Layout managers. 5M
- OR
- 20 a) Write a short note on delegation event model. 5M
b) Explain about the adapter class with an example. 5M