



R17 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

Subject code: 1P3EE

B.Tech II Year I Semester Supplementary Examinations, March/April 2023

Object Oriented Programming through Java  
(CSE)

Maximum Marks: 70

Date: 10.04.2023 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.
  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

- 1 Differentiate between c++ and java. (10x2M=20 Marks)
- 2 What do you mean by garbage collection?
- 3 Write differences between interfaces vs. Abstract classes?
- 4 Define dynamic binding.
- 5 What is the purpose of Hash table class?
- 6 What are the methods of Scanner Class?
- 7 What is Inter thread communication and why it is important?
- 8 Write the usage of throw and throws keywords?
- 9 Distinguish between swings Vs AWT?
- 10 Draw an Applet life cycle?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 a) Define Method overloading? Mention Its types? With examples. [5]  
b) Explain about Console class and its methods with an example? [5]
- 12 a) Write about control statements in java with suitable examples? [5]  
b) Describe the features (buzzwords) of Java Programming language? [5]
- 13 a) With the help of a java program explain the use of the final keyword? [5]  
b) What is package? With an example explain how packages are imported? [5]
- 14 a) Define an Interface? And explain how the interfaces are implemented with suitable example?[5]  
b) What Abstraction. How to achieve it in Java. Explain suitable example? [5]
- 15 a) Draw Thread Life cycle with neat diagram explain each phase in detail? [5]  
b) Differentiate between Checked and Unchecked Exceptions with examples. [5]

OR

- 16 a) Write with an example how java performs thread synchronization? [5]  
b) Write about try, catch and finally with an example? [5]
- 17 Differentiate between ArrayList and Vector? Why ArrayList is faster than Vector? Explain. [10]

OR

- 18 a) Write about StringTokenizer with an example. [5]  
b) Discuss about Java Collection frame work with an example. [5]
- 19 a) Discuss about some components in swing with suitable examples? [5]  
b) Discuss about developing and deploying of an applet with an example? [5]

OR

- 20 What is Layout manager, List and explain different types of Layout managers with Suitable examples. [10]