

NOVEMBER 2022

50435/SE23A

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. List the Data types of Java
2. What are the features of Java
3. What is Array?
4. How to create an object in Java? Give an examples.
5. What are packages?
6. Define Exception.
7. What are Applets?
8. What is Queue?
9. What is Abstract data types?
10. What is Singly Linked List?
11. What are the Arithmetic Expressions?
12. What is Binary Tree?

U Bsc CompSci. → Java and Data Structures

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions

13. Write short notes on : Java Tokens
14. Write a Java Program to illustrate creation and casting of variables
15. What is method overloading? Explain with an example Java program
16. Illustrate the operations on Queues.
17. Discuss various kinds of Binary Tree Operations with example.
18. How to solve Dijkstra Algorithm?
19. Write a note on : Breadth First search.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Explain about basic concepts of object oriented programming
21. Write a Java program to illustrate the use of constructor.

22. Explain about synchronization? Explain with suitable examples
23. Write a detail note on Graph Traversals
24. Explain about Depth-First-Search (DFS) with examples.