

R16

Code No: 133BM

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech II Year I Semester Examinations, September/October - 2023

OBJECT ORIENTED PROGRAMMING THROUGH JAVA

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Note: i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A

(25 Marks)

- 1.a) What is a Constructor? [2]
- b) What are Control Statements? [3]
- c) Explain Nested Interfaces? [2]
- d) What is serialization? Give one example. [3]
- e) Write about Synchronization of threads. [2]
- f) What is the difference Thread and Process? [3]
- g) Write about Random Utility Class? [2]
- h) What is Priority Queue in Java? Explain [3]
- i) Write about Border Layout. [2]
- j) What is an Event Listener? Give an example. [3]

PART – B

(50 Marks)

- 2.a) How do you implement Hierarchical Inheritance in Java? Explain. [5+5]
 - b) Write a Java program to find smallest of array elements. [5+5]
- OR**
- 3.a) Write about any two string handling functions in Java? [2+8]
 - b) Write a Java program to accept a String and to reverse it? [2+8]
- 4.a) What is the need of IO Streams? [3+7]
 - b) Write a program to read and write contents of a file as a stream of bytes? [3+7]
- OR**
5. What are Packages? Explain. Write a Java code to create Employee package with basic employee details? [10]
- 6.a) What is a Multi Threading? Explain. [3+7]
 - b) Write a program to create two threads, using these two threads print even and odd numbers in increasing order. [3+7]
- OR**
- 7.a) Explain Checked and Unchecked Exceptions in Java ? Explain. [5+5]
 - b) Write a java code for handling Arithmetic exception? [5+5]

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8. Explain Map Interfaces and Classes with examples. [10]

OR

9. Explain Array List and Array Deque? What is the difference between them? How do you implement them in java? Explain with suitable example. [10]

10. Explain MVC architecture? Explain about containers? Write the limitations of AWT. [10]

OR

11. Write about various Swing Controls? Write a code to create login window. [10]

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