

Code No: 154BE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech II Year II Semester Examinations, April/May - 2023****JAVA PROGRAMMING****(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 variable? [2]
- b) Explain the usage of 'final' keyword. [3]
- c) Define a Package? [2]
- d) Write a short note on Byte stream. [3]
- e) Explain about built in exceptions. [2]
- f) Write a short note on thread priorities. [3]
- g) Discuss about Array deque. [2]
- h) Write a short note on Scanner class. [3]
- i) What is adapter class? [2]
- j) Write a short note on swing. [3]

PART – B**(50 Marks)**

- 2.a) Explain the 'for' loop with an example.
 - b) Write a short note on any two string handling functions. [5+5]
- OR**
3. What is inheritance? Explain different types of inheritances. [10]
 4. Explain the concept of interface with an example program. [10]
- OR**
5. Demonstrate the Reading console Input and Writing Console Output with an example. [10]
 6. Explain about the following:
 - a) Checked exceptions
 - b) Unchecked exceptions. [5+5]
- OR**
- 7.a) Write a short note on thread life cycle.
 - b) Discuss about thread based multitasking. [5+5]

8. Briefly explain about the following:
a) Linked List
b) Tree set. [5+5]
- OR**
9. Write a short note on:
a) Priority Queue
b) Hashtable. [5+5]
10. Briefly explain about the following:
a) Card Layout
b) JScroll Pane. [5+5]
- OR**
- 11.a) Explain any two swing controls.
b) Write a Java program to demonstrate the handling Mouse events. [5+5]

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