

R18

Code No: 154BE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech II Year II Semester Examinations, December – 2024/January -2025

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 a method? [2]
- b) Discuss about polymorphism. [3]
- c) What is autoboxing? [2]
- d) Explain nested interfaces. [3]
- e) State about nested try statement. [2]
- f) Discuss about thread based multi-tasking. [3]
- g) What is the difference between arrays and collections in Java? [2]
- h) What is the Dictionary class in Java, [3]
- i) Define adapter classes. [2]
- j) Explain the syntax of JList with example. [3]

PART – B

(50 Marks)

- 2.a) Discuss in detail about Java buzzwords.
- b) What is a nested class? Differentiate between nested classes and inner classes. [5+5]

OR

3. Define inheritance. Explain different forms of inheritance with suitable programs. [10]
4. Create an interface with at least one method and implement that interface by within a method which returns a reference to your interface. [10]

OR

- 5.a) What is the difference between FileInputStream and FileReader classes? When would you use each?
- b) What is the difference between System.out.println() and System.out.printf()? Provide examples. [5+5]

6. Explain the synchronization of multiple threads in Java with an example. [10]

OR

7. Explain about exception handling and write a java program which illustrates the try, catch, throw and throws and finally blocks. [10]

QA QA QA QA QA QA QA G

8. Write a program to demonstrate the creation of an ArrayList and add, retrieve, and remove elements. [10]

QA QA QA QA QA QA QA QA QA G

9.a) Explain the difference between HashSet and TreeSet. [10]

b) Write a program to store a sorted set of integers using a TreeSet. [5+5]

10. What is event handling? Discuss different types of event handling classes and event handling interfaces. [10]

OR

QA QA QA QA QA QA QA QA QA G

11. Explain three UI components of swing and their classes and constructors. [10]

---ooOoo---

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G

QA QA QA QA QA QA QA G