

Code No: 157EU

R18

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, February/March - 2022

JAVA PROGRAMMING
(Common to CE, ECE, ME)

Time: 3 Hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) Give the syntax of various control statements used in Java programs and explain them.
- b) Briefly explore the functionality of various methods in String class of Java. [7+8]
- 2.a) Demonstrate the concept of operator overloading with an example in Java program.
- b) Give a short note on Garbage collection. [8+7]
- 3.a) Discuss various levels of access protection available for package and mention their implications.
- b) How an interface can be used to support multiple inheritance in Java? Explain briefly. [7+8]
- 4.a) What is Dynamic method dispatch? Explain how to use dynamic method dispatch to implement run-time polymorphism in Java.
- b) How will you call parameterized constructor and overridden method from parent class in sub class? Illustrate with an example. [8+7]
5. Explain the concept of exception handling in Java with an example program. [15]
- 6.a) Explain any five java's built-in exceptions defined in java.lang package.
- b) What is the difference between final, finally and finalize keywords in JAVA? [9+6]
7. Explain various types of Mouse events that are defined in MouseEvent class and MouseWheelEvent class. [15]
- 8.a) Explain the life-cycle of a thread with a neat diagram.
- b) Discuss about isAlive() and join() methods. [7+8]

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