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
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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 overrided 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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