Java Exam 2: Graded out of 50.

1. Define the following terms (2 pts each):
   1. Unit Test
   2. Object
   3. JFrame
   4. Encapsulation
   5. Inheritance
   6. Input Sanitation
   7. Polymorphism
   8. Interface
   9. Primitive type
   10. Test-Driven Development
   11. Servlet
2. Explain the roles of the following elements in a swing application: (3 pts each)
   1. JPanel
   2. Event
3. Describe the difference between a JSP and a Servlet (4 pts)
4. Explain the roles of Unit Testing, Integration Testing, Product Testing, and Deployment Testing(6 pts)
5. Explain why we use an Application class as well as an Object class when coding in Java (3 pts)
6. What are the return types of the following methods? (1 pt each)
   1. Public static void main( String[] args)
   2. Private int executeUpdate()
7. Explain the purpose and function of a try-catch-finally structure. (2 pts)
8. Explain the difference between a float and a double (3 pts)
9. Discuss briefly the advantages and disadvantages of using version control software, such as git.. (5 pts)
10. EXTRA CREDIT: (2 pts)

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| Isaac and Albert were excitedly describing the result of the Third Annual International Science Fair Extravaganza in Sweden. There were three contestants, Louis, Rene, and Johannes. Isaac reported that Louis won the fair, while Rene came in second. Albert, on the other hand, reported that Johannes won the fair, while Louis came in second.  In fact, neither Isaac nor Albert had given a correct report of the results of the science fair. Each of them had given one correct statement and one false statement. What was the actual placing of the three contestants? |