CMSC 220 Software Construction (Session 1)
Quiz 2
10/14/2014

(Please check all that apply below)

Name _______________

1. Name two non-functional requirements, and describe a quantitative metric that you can use to measure each of them.

   __usability___ metric ___training time needed for users___

   __availability_ metric ___percentage of time that a service is available_

2. Please write a class declaration for the “Order” class and the “OrderLine” class based on the class diagram on the other page.
   (all properties of these classes are private)

   Class Order{
     private:
         Date dateReceived;
         Boolean paid;
         Boolean isDelivered;
         Customer buyer;
         list<OrderLine> lines;
   }

   Class OrderLine{
     private:
         int quantity;
         float price;
         Product item;
   }
3. Reading the class diagram on the other page, developers want to add a new class, named PrimeCustomer. This PrimeCustomer class will inherit all the properties and operations of the Customer class. However, it will have an extra field, discountRate, typed “float”. Please add this new class to the class diagram. (make your change on the next page)