QUES1. What are the differences between class diagrams and object diagrams in   
 UML, and how are they used in system analysis?

QUES2. How do you define the purpose of using UML in system analysis?

QUES3. Describe some commonly used object oriented metrics and their   
 respective purposes in evaluating software quality.

QUES4. The ABC Bank wants you to write a software application that runs its   
 ATMs. The bank has customers, and a customer has one or more   
 accounts in the bank. Consider the example of withdrawing cash from   
 an ATM machine. The process consists of the following steps:

1. The customer is asked to insert card and enter PIN.
2. If the bank validates the PIN, then the withdrawal transaction will be performed:  
   (a) Customer selects amount.

(b) The system verifies that if it has sufficient money to satisfy the

request, then the appropriate amount of cash is dispensed by the   
 machine and a receipt is issued.  
(c) If sufficient amount is not available in the account, a message   
 “Balance not sufficient” is issued.

1. If the bank reports that the customer’s PIN is invalid, then the customer is requested to reenter the PIN.

Draw the sequence diagram for cash withdrawal from the ATM machine.

QUES5. What is an activity diagram? What are the basic symbols used in the   
 construction of such a diagram? What are the applications of an activity   
 diagram?

QUES6. What is functional testing? Discuss any one technique with the help of an   
 example.

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