QUESTION BANK

1. Can you use STATE TRANSITION DIAGRAM for construction of activity Diagram?

2. Illustrate the steps of data modelling with suitable illustrations. How can you map data model with C++/Java Code.

3 Give your opinion about the execution of the uses cases of systems using precondition and post condition of use case diagram. ? Illustrate Your opinion with respect to two actors , librarian and the reader in Bharatratna Dr. Babasaheb Library, VJTI , Matunga Library systems ?.

4.The "All in one e-billing" provides an easy to handle kind of interface to all its user. Using the application one can pay monthly bills through internet by registration on the side. The application's main module provides the facility of payment of monthly bills such as Electricity bills, Telephone bills, Corporation bills, Cable bill and LPG bill. Other module include feedback mechanism, automatic update policy etc. After the transaction you can take the print out of the bill.

(a)Construct the use case diagram

(b)Give the algorithms for the BILL PAYMENT use cases

(C) Identify any dynamic class and construct STD for it.

5. VJTI offers different programs(branches) for the students..In the VJTI result management systems, the students has to appear for practical examination(100 Marks) and theory examination(100 Marks). The theory examination is the continuous assessment based on MST(20 Marks), TA(20Marks), and End Semester Examination(ESE)-60 Marks and the results of the students are declared on the basis of practical examination and theory examination. For this case study , answer the following questions.

(i)Construct use case diagram and interaction diagram of the examination systems.

6(i).Construct Use case Diagram and class diagram for the following case study:

(Ii) Give data and process model design for this Systems using C++ or JAVA

The common place book is a collection of reference materials that 'ABC Detective Agency' constructed to supplement their prodigious memory for facts. The client for the common place book is the consulting private detective at the ABC detective agency. The clients would like to have the existing paper based system accessible through computer searching within a year. The old system must continue to exist until the new system is up and running with the equivalent information. The content of the system ranges from critical information about criminals and criminal events to "nice to have" information about vampires and vipers. Critical information includes biographical data about criminals and relevant people and organizations, case histories from ABC Detective Agency to police files and agony column entries (though this is a fine old paper based system for advertising for assistance is now being superseded by web/internet chat rooms.). Biographical information needs to be present in the first release for all criminals known to the agency.