

Time: 1.5 Hours

Max. Marks: 30

Note: Answer ALL questions.  
Assume suitable missing data, if any.

Q1. Answer the following:

- a) Define the object "Employee" with possible attributes and operations.
- b) Define object interaction.
- c) What is meant by model?
- d) Define Actor.
- e) Explain UML.

[1X5=5]

Q2. What is the significance of state chart diagram while designing the system? Explain the structure of state chart diagram of ATM Machine and illustrate the working. [5]

Q3. Differentiate between with suitable example:

- a) Traditional software development life cycle (SDLC) with object oriented SDLC.
- b) Sequence Diagram and Collaboration Diagram [5X2=10]

Q4. How can you judge the goodness of the object oriented design? Explain in brief about all the quality parameters. [5]

Q5. Differentiate between aggregation and generalization. State a problem of processing of order and generating invoices of sales in a medical store. Design a class diagram. Describe the role of each class, relationship between classes and operations defined. [5]

END