

(3 Hours)

Object Oriented Analysis & Design

- N.B.: (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions out of remaining **six** questions. 2:30 to 5:30
(3) Make suitable **assumptions** wherever **necessary** and state them.

1. Consider the five basic operations of a saving bank account, namely :— Opening 20
an account, Depositing a cheque, Depositing cash, Obtaining a Demand Draft,
Obtaining a monthly statement.
Draw out the use cases of the above.
Draw out an Activity Diagram clearly indicating parallelism in the various swimlanes.
2. (a) Explain different steps for identifying classes. 10
(b) Explain differences between collaboration and sequence diagrams. 10
3. (a) Draw the state transition diagram for ATM machine and explain. 10
(b) What is dynamic modeling ? Name and explain different diagrams in dynamic 10
model.
4. (a) Construct the interaction diagram for Telephone call system. What are the 10
elements used in Interaction diagram ?
(b) What are the different type of Testing ? Explain in detail. 10
5. (a) Write short note on :— 10
(i) Association and Aggregation
(ii) Multiplicity and Generalization.
(b) Differentiate between Static modeling and Dynamic modeling in detail. 10
6. (a) How class diagrams are useful in modeling logical database schema ? Explain 10
with suitable example.
(b) Draw a component diagram for Airline Reservation System. Write problem 10
statement also.
7. (a) Explain features of object oriented programming with suitable example. 10
(b) Explain different types of coupling and cohesion. 10