



- Notes :
1. Attempt **any five** questions.
  2. Assume suitable data wherever necessary.
  3. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Explain (with example) dynamic and shared inheritance. **6**  
b) Differentiate between composition and Aggregation. **4**  
c) Explain the concept of Requirement elicitation concept. **4**
2. a) Explain object-client server framework (OCSF). **8**  
b) Draw and explain sequence diagram and collaboration diagram for Employee registration system and explain it. **6**
3. a) Explain proxy pattern with example. **4**  
b) What are basic building blocks of UML? Explain in brief. **4**  
c) Discuss various class diagrams that developed as different phases of software engineering processes. **6**
4. a) Discuss issues to be considered while creating generalization. **10**  
b) Write brief note on object constraint language. **4**
5. a) Discuss a technique for making good design decision. **6**  
b) Differentiate between testing and inspection. **4**  
c) Explain the characteristics of users. **4**
6. a) Explain the content of a design document. **4**  
b) Describe related use cases that have to do with opening a file in an application. **10**
7. a) What is cohesion? Give short definition on different types of cohesion. **4**  
b) Explain in brief software development process model. **10**
8. a) How object is defined in object oriented database system? Explain with example how query can be applied to it. **8**  
b) Explain following testing concept **6**
  - i) Fixture
  - ii) Test stub
  - iii) Component

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