

Register Number:

UNIVERSITY DEPARTMENTS, ANNA UNIVERSITY – CHENNAI
B.E / B.TECH.(FULL TIME) DEGREE ENDSEMESTER EXAMINATIONS, APRIL/MAY
2011

BRANCH: Common to CSE & IT
V SEMESTER – REGULATIONS 2008

39

CS9301 : OBJECT ORIENTED ANALYSIS AND DESIGN(arrears)

Time: Three hours

Max.Marks:100

Answer All Questions
Part – A (10X2 = 20 Marks)

1. Distinguish between aggregation and composition.
2. Why do you need modeling?
3. Draw sequence diagram for the usecase "make creditcard payment " in POS.
4. What are the major steps in architectural design?
5. Write down the format of a pattern description.
6. Give an example to each type of usecase stereotype in UML.
7. What are the basic GRASP patterns?
8. How do you specify visibility to attributes and methods in a class?
9. Identify the classes from the statement: "a set of interested students of post graduate courses in CSE and IT in a college want to apply for MS programme in USA".
10. What is OCL ? Give an example.

Part – B (5X16 = 80 Marks)

11. a i. Design analysis class model and usecase model for POS. (10)
ii. Draw state diagram for a copy printer. (6)
 - 12.a) i. Describe the evolutionary requirements analysis. (10)
ii. Draw SSD for POS. (6)
- (OR)**
- b) i. Describe with suitable example how to create operation contracts. (10)
ii. Explain steps in inception phase and its deliverables. (6)
13. a) Explain steps in object design with responsibilities. (16)
- (OR)**
- b) Draw logical architecture and package diagram for POS. (16)
14. a) Develop a class diagram for a library system and show how to map class design to code. (16)
- (OR)**
- b) Describe test driven development and re-factoring technique. (16)
15. a) Describe facade pattern and MVC pattern. (16)
- (OR)**
- b) Explain design of persistence framework using patterns. (16)