FACULTY OF INFORMATICS

B.E. III/IV Year (IT) II Semester (Main) Examination, May/June 2011
OBJECT ORIENTED SYSTEM DEVELOPMENT

Time : 3 Hours] [Max. Marks : 75

Answer all questions from Part A.
Answer any five questions from Part B.

Part A – (Marks : 25)

1. Give the elements of UML.
2. What are stereotypes and constraints of UML?
3. Mention different types of objects in UML.
4. What is focus of control in sequence diagram?
5. Define Event and signal.
6. Mention different parts of State and Transition.
7. What is forward Engineering and Reverse Engineering?
8. What are 4P’s in software development?
9. What is ‘Domain Model’? Explain.
10. What are core work flows?

Part B – (Marks : 5 x 10 = 50)

11. (a) Trace transition from usecase diagrams to collaboration diagrams.
    (b) What is state chart diagram? Explain its contents, uses and common modeling Techniques.
12. (a) Discuss various relationships in UML with help of examples.
    (b) What is a package? What relationship can exists between packages?
13. (a) Explain the concepts of “patterns and frame works”. Explain where they are useful.
    (b) Explain contents, common uses of stat chart diagrams.
14. Describe in detail the Unified software development process.
15. Describe an Architecture-Centre development process.
16. (a) What is meant by ‘Unified Process’ explain the detail.
    (b) Explain component diagram with an example.
17. Explain the following:
    (a) Structural Modeling
    (b) Interaction diagrams
    (c) Difference between Iteration and Increment during software development.