

Subject Code: H5804/R13

M. Tech –II Semester Regular/ Supply Examinations, October, 2015

OBJECT ORIENTED ANALYSIS AND DESIGN

(Computer Science & Engineering)

Time: 3 Hours

Max Marks: 60

Answer any FIVE questions

All questions carry EQUAL marks

- 1 a) Define software architecture. Explain the 4+1 view model of systems architecture. [6]
b) Explain the various relationships with UML notation. [6]
- 2 a) Enumerate the steps to model different views of a system. [6]
b) How do you inter relate interfaces, types and roles? [6]
- 3 a) Enumerate the steps to forward engineer a class diagram. [6]
b) Enumerate the steps to model logical database schema. Give all example class diagrams. [6]
- 4 a) Consider modeling a student information system. Consider the use case “student registers for a course”. Draw a sequence diagram and explain briefly. [6]
b) Explain about collaboration diagrams. How are they contrasted with sequence diagrams? What is semantic equivalence with interaction diagrams? [6]
- 5 a) Draw a use case diagram that depicts the context of a credit card validation system. Explain briefly. [6]
b) Explain the various relationships possible among use cases. Illustrate in UML notation. [6]
- 6 a) What are swimlanes? Explain with an activity diagram. [6]
b) What are the various parts of a state? Explain briefly. [6]
- 7 a) Describe the various parts of a transition. [6]
b) Explain in detail about the extensibility mechanisms in UML. [6]
- 8 a) Define component. What are the differences between components and classes? How are component and interface related? [6]
b) Enumerate the steps to model an executable release. Illustrate with UML diagram. [6]
