

Code No: R32125

R10

Set No. 1

III B.Tech II Semester Supplementary Examinations, Dec - 2015

OBJECT ORIENTED ANALYSIS AND DESIGN

(Information Technology)

Time: 3 hours

Max. Marks: 75

Answer any FIVE Questions

All Questions carry equal marks

- 1 a) What is meant by unified in UML? Explain the structure of UML. [9]
b) When and why to use <<extend>> and <<include>> terms in usecase modeling? [6]
- 2 a) How to find classes by noun/verbal analysis in object oriented modeling? Explain. [8]
b) State the rules of thumb for creating well-formed analysis classes. [7]
- 3 a) Define the following relationships in UML along with their notations and an example: association, link, [6]
b) Explain in detail about association relationship and various attributes associated with it. [9]
- 4 a) Identify various use-case realizations for a student course registration system and explain the actions and activities associated with it. [8]
b) List the contents of communication diagram and explain their representation and used in UML. [7]
- 5 a) Differentiate between template classes and nested classes. [5]
b) Explain various techniques for refining analysis relationships into design relationships. [10]
- 6 a) Explain how components and interfaces are combined in Component-Based Development model. [8]
b) Give the procedure for modeling concurrency in an activity diagram with an example. [7]
- 7 a) Draw a state machine for the controller in a home security system, which is responsible for monitoring various sensors around the perimeter of the house. [7]
b) Explain the following terms related to state machines: [8]
i) Submachine state ii) submachine communication
- 8 a) Explain the relationship between the implementation model and the design model. [7]
b) Draw and explain the deployment diagram for an online reservation system. [8]

