

Code: 9A05601

R09

B.Tech III Year II Semester (R09) Supplementary Examinations January/February 2014

OBJECT ORIENTED ANALYSIS AND DESIGN

(Common to CSE, IT and CSS)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain in detail about grouping and an notational things of UML in detail.
(b) Explain about dependency and realization relationships in UML in detail.
- 2 (a) Explain about template classes in UML with a diagram.
(b) Explain about four standard stereo types that are applied to classes in UML in detail.
- 3 Explain about the steps involved in modeling a logical database schema with examples.
- 4 Explain about the following:
(a) Associations.
(b) Flat sequencing in interaction.
- 5 (a) Enumerate the steps to attach an activity diagram for an operation.
(b) Enumerate the steps to model the work flow in an activity diagram.
- 6 A simple digital watch has a display and two buttons to set it, the A button and the B button. The watch has two nodes of operation, display time and set time. In the display time mode, the watch displays hours and minutes, separated by a flashing colon. The set time mode has two sub modes, set hours and set minutes. The A button selects modes. Each time it is pressed, the mode advances in the sequence: display, set hours, set minutes, display etc. within the sub modes, the B button advances the hours or minutes once each time it is pressed. Buttons must be released before they can generate another event. Draw the state chart diagram for the above case study and justify your answer.
- 7 (a) Explain how forward engineering and reverse engineering can be done using deployment diagrams.
(b) Draw and explain the deployment diagram for a network management system.
- 8 (a) Draw and explain the class diagram for a library management system.
(b) Draw and explain the deployment diagram for the library system.
