

Code: 9A05801

R09

B.Tech IV Year II Semester (R09) Advanced Supplementary Examinations, July 2013

DESIGN PATTERNS

(Common to CSE, IT and CSSE)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) What is an interaction diagram? What is its role in design of the particular model?
(b) List and explain the various constructors and destructors present in list class.
- 2 (a) Explain with a suitable example, how to find the appropriate objects in the particular pattern.
(b) What is delegation? Explain it in detail.
- 3 (a) Differentiate between compositor and composition.
(b) Give brief description about the transparent enclosure.
- 4 (a) Draw and explain the structure of a abstract factory.
(b) Draw and explain the interaction diagram that shows the relationship between builder and director.
- 5 (a) Explain the various implementation issues of the bride pattern.
(b) Write short notes on applicability and collaborations of an adapter design pattern.
- 6 (a) What is the motivation for flyweight pattern? Explain it in detail.
(b) Give brief description about the interpreter design pattern.
- 7 (a) List and explain the various constructors that are supported by iterator pattern.
(b) Draw and explain the class diagram for FrontDialogDirector abstraction.
- 8 Write short notes on the following:
 - (a) Consequence of state pattern.
 - (b) Applicability of template method.
 - (c) Structure of a visitor pattern.
