



Code: 9F00505c

MCA V Semester Supplementary Examinations July 2015

DESIGN PATTERNS

(For students admitted in 2009, 2010, 2011 and 2012 only)

Time: 3 hours

Max Marks: 60

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Give brief description about the areas where the design patterns are applied.
(b) Explain about how the user interfaces are created in Smalltalk.
- 2 Explain in detail about the various user operations that are to be performed on Lexi.
- 3 (a) List and explain the key features of creational patterns.
(b) What is the motivation for builder pattern? Explain it in detail.
- 4 (a) List and explain the various issues that should be considered while designing the adapter pattern.
(b) Write a short note on bridge pattern.
- 5 (a) Give brief description about the applicability, structure and participants of decorator pattern.
(b) Write a sample code for the façade on compiler subsystem.
- 6 (a) Which pattern is used to express the instances of the problem as sentences in simple language? Explain.
(b) Explain the structure, participants and collaborations of a command pattern.
- 7 What is the motivation for mediator behavioral pattern? Explain in detail.
- 8 (a) Give brief description about the visitor pattern.
(b) Write short notes on decoupling sender and receivers.
