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.

*****