**Code: 9F00505c**

MCA V Semester Regular & Supplementary Examinations December 2015
**DESIGN PATTERNS**
(For 2010, 2011, 2012 and 2013 admitted batches only)

Time: 3 hours                                                                 Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks

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1  (a)  Explain the role of pattern elements in design of a particular problem.
   (b)  Describe how to use the design patterns.

2       What is Lexi? List and explain the various problems that are associated with it. Describe about the hyphenation.

3  (a)  Explain the role of creational patterns in design of a pattern.
   (b)  Describe how we can separate the construction of complex objects from its representations.

4  (a)  Why we are using the wrapper patterns? Draw and explain the structure of it.
   (b)  List and explain the problems that are solved by the bridge pattern.

5  (a)  Discuss about the consequences and implementation issues of a proxy pattern.
   (b)  Write short notes on decorator pattern.

6  (a)  Briefly explain about the issues that should be considered while implementing the chain of responsibility pattern.
   (b)  Discuss in detail about the applicability of a command pattern.

7  (a)  Which design pattern encourages the distribution behavior among objects? Explain.
   (b)  Give brief description about the publish – subscribe design pattern.

8       Write short notes on the following:
   (a)  Decoupling sender and receiver.
   (b)  Object as arguments to a pattern.
   (c)  Implementation issues of visitor pattern.

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