

Code: R7420507

**R7**

B.Tech IV Year II Semester (R07) Advanced Supplementary Examinations, June 2012

**DESIGN PATTERNS**

(Common to CSE, IT and CSS)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions

All questions carry equal marks

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- 1 (a) List and explain the different classes in design patterns.  
(b) Discuss in detail about the organization of the catalog.
- 2 (a) Give brief description about the encapsulating access and traversal.  
(b) What is a structure? Explain in detail, how to construct it.
- 3 (a) What is the motivation for abstract factory pattern? Explain it in detail.  
(b) Explain the consequences and implementation issues for builder pattern.
- 4 (a) What are the issues that should be considered for implementing the composite pattern?  
(b) Explain the different participants involved in design of adapter pattern.
- 5 Discuss in detail about the flyweight design pattern.
- 6 (a) What is the motivation for command design pattern?  
(b) Give brief description about the interpreter design pattern.
- 7 (a) Explain the structure of typical mediator with its architecture.  
(b) Discuss in detail the various consequences and issues of implementation for memento.
- 8 (a) Write a short notes on Alexander's pattern language.  
(b) Discuss in detail about refactoring.

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