

Code No: NR-46

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA IV Semester Supplementary Examinations January 2010

DESIGN PATTERNS

Time: 3 hours

Max.Marks:60

Answer any FIVE questions

All questions carry equal marks

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- 1.a) Explain about the object diagram with an example.
b) Differentiate between sequence and collaboration diagram.
2. a) Describe the essential elements of Design patterns?
b) Explain the design pattern in Smalltalk MVC?
- 3.a) Explain the Compositor and composition class relationships with an example
b) Explain Window and Window Imp class with an example.
4. a) Explain about the prototype patterns with an example?
b) Explain the applications and consequences of Abstract factory method?
5. a) Explain the Motivation and structure of Decorator pattern?
b) Design a drawing editor application by using Adapter pattern. Explain.
6. Write a sample code of command pattern?
7. Describe about the state pattern?
8. a) Explain the consequences and implementation issues of template method
b) Explain the benefits and draw backs of strategy method
