

Code No: B4004

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M.Tech II - Semester Examinations October / November 2011

**DESIGN PATTERNS  
(INFORMATION TECHNOLOGY)**

**Time: 3hours**

**Max.Marks:60**

**Answer any five questions  
All questions carry equal marks**

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|------|---|-----|
| 1.a) | What is a Design Pattern? Write about four essential elements of a pattern.         | 6M  |
| b)   | Describe the design patterns template.  | 6M  |
| 2.a) | Write about Glyphs.   | 6M  |
| b)   | Explain Command class and Subclasses.   | 6M  |
| 3.a) | Write the uses and consequences of Abstract Factory pattern and draw the structure. | 6M  |
| b)   | Write the motivation and participants of the Builder pattern. Draw structure of it. | 6M  |
| 4.   | Explain Adapter Pattern.  | 12M |
| 5.   | Write about Proxy pattern.  | 12M |
| 6.   | Explain Command pattern.  | 12M |
| 7.   | Describe Strategy pattern.  | 12M |
| 8.   | Write short notes on:   |     |
| a)   | Dynamic binding   | 6M  |
| b)   | Delegation  | 6M  |

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