R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, March - 2017
DESIGN PATTERNS
(Computer Science and Engineering)

Time: 3 Hours　　　　　　　　　　　　　　　　　　　　　Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

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1.a) How to select and use a design pattern? Explain with an example.
 b) What are common causes for redesigning the design patterns? Explain.　[8+7]

2.a) Give a detailed note on organizing the design pattern catalog.
 b) Write notes on the design patterns in small talk MVC.　　　　　　　[8+7]

3.a) What is the intent of bridge pattern? Explain the structure and applicability of this pattern.
 b) Explain sample code of factory method design pattern.　　　　　　　[8+7]

4.a) Explain the structure and participants of prototype with an example.
 b) What are the known uses and related patterns of facade pattern? Explain.　[8+7]

5.a) Explain the structure and participants of Decorator pattern.
 b) What is the motivation for Iterator pattern? Explain.　　　　　　　　[8+7]

6.a) Explain the structures, participants, and collaborations of proxy.
 b) What are the benefits and liabilities of the observe pattern? Explain.　[8+7]

7.a) Discuss about the implementation issues in singleton design pattern.
 b) Describe applicability, structure and participants of adapter pattern.　[7+8]

8.a) The Template Method pattern makes the method call in a special way - Explain.
 b) How does the Decorator pattern help to decompose the problem? What does each Decorator object wrap? Explain.　　　　　　　　　　　　　　[7+8]

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