R09

Code No: 58063

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year II Semester Examinations, May - 2016
DESIGN PATTERENS
(Information Technology)

Time: 3 Hours   Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks
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1.a)   Explain the organization of the catalog of Design pattern.
  b)   Explain the steps to be followed for selecting a Design pattern.   [7+8]

2.   Discuss how various design patterns can be used for embellishing the user interface supporting multiple look-and-feel standards while designing a document editor.   [15]

3.a)   Write the Motivation of Factory method pattern and its applications.
  b)   Explain the consequences and applications of Builder design pattern.   [8+7]

4.a)   Explain the consequences, implementation and applications of Adapter design pattern.
  b)   Explain the implementation of Composite design pattern with a real time example.   [8+7]

5.a)   Write motivation of Decorator design pattern. Discuss its applications.
  b)   With an example draw the structure of Proxy Design pattern.   [8+7]

6.   Discuss the following in detail.
  a) Chain of responsibility.
  b) Interpreter.
  c) Iterator.   [5+5+5]

7.a)   Write motivation of Mediator design pattern. Discuss its related pattern.
  b)   Explain the Template Method design pattern with an example.   [8+7]

8.a)   Explain the pattern community.
  b)   Differentiate Structural and Behavioral Design pattern.   [7+8]

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