R13

Code No: 815BF

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA V Semester Examinations, June/July - 2018
DESIGN PATTERNS

Time: 3 Hours   **Max. Marks: 60**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

5 × 4 Marks = 20

1.a) Discuss the significance of the design patterns.   [4]
  b) Explain about the features and usage of builder pattern.   [4]
  c) Write brief notes on proxy pattern.   [4]
  d) Compare Interator and Interpreter patterns.   [4]
  e) Write brief notes on strategy pattern.   [4]

PART - B

5 × 8 Marks = 40

2. How to use a design pattern? Explain with a suitable example.   [8]
OR
3. Explain the catalog of design patterns.   [8]

4. Discuss how design patterns can be used for designing a document editor.   [8]
OR
5. Explain about abstract factory and factory method patterns.   [8]

6. Write the source code, implementation and uses of decorator pattern with a suitable example.   [8]
OR
7. Explain the usage of adapter and bridge patterns with a suitable example.   [8]

8. Discuss the implementation of chain of responsibility pattern and explain its usage with suitable example.   [8]
OR
9. Discuss in detail about mediator and memento patterns.   [8]

10. What are the considerations and expectations from design patterns? Discuss about visitor pattern.   [8]
OR
11. Discuss about pattern community. Explain about template method pattern.   [8]

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