

Time 3 Hours

Marks: 80

Instructions

1. Q1 is compulsory
2. Attempt any three from Q2 to Q6
3. Assume data if required

Q1 Explain the following :-

- |   |   |    |
|---|---|----|
| a | Architectural drift and Architectural erosion           | 05 |
|   | Architectural model and Architectural recovery          | 05 |
|   | Prescriptive architecture and descriptive architecture. | 05 |
|   | Architecture Description Language (ADL)                 | 05 |
|   | Architectural drift and Architectural erosion           | 05 |

Q2

- a) Explain in short the following terminology :- 10
- 1) Connector
  - 2) Configuration
  - 3) Interfaces
  - 4) Rationale
  - 5) Components

- b) Explain Architectures for Web Based Applications along with the help of suitable diagram and real time case study. 10

Q3

- a Explain proxy design pattern and when this pattern is used. 10
- b What is architectural pattern? List the categories, in which architectural patterns are grouped. On what basis the architectural pattern is selected. 10

Q4

- a Explain Broker architecture. Give example of an application where broker architecture would be the right choice. Give its benefits and liabilities. 10
- b What characteristics do all data-intensive connectors share? 10

Q5

- a Discuss Design issues for NFP's: Efficiency and Scalability. 10
- b Explain in brief decentralized architectures. 10

Q6 Write short note on :-

- a Stakeholder driven modeling. 10
- b MVC. 10

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