

Code: 13A05701

R13

B.Tech IV Year I Semester (R13) Regular Examinations November/December 2016

**SOFTWARE ARCHITECTURE & DESIGN PATTERNS**

(Common to CSE and IT)

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

- (a) What is data abstraction?
- (b) What is pipe?
- (c) What is filter?
- (d) What is process control?
- (e) What is database integration?
- (f) What is mediator?
- (g) What is prototype?
- (h) What is system quality?
- (i) Define document structure.
- (j) What are the object oriented concepts?

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

2 Explain various architecture styles and heterogeneous architectures.

**OR**

3 What is shared information systems? Explain architectural structures of shared information systems.

**UNIT – II**

4 What is design pattern? Describe implementation of design patterns.

**OR**

5 Discuss the creational patterns, abstract factor and factory method.

**UNIT – III**

6 Explain structural patterns adapter and bridge.

**OR**

7 Explain structural pattern Flyweight and Proxy.

**UNIT – IV**

8 Explain chain of responsibility for Behavioral patterns.

**OR**

9 Explain behavioral patterns Mediator and Observer.

**UNIT – V**

10 Explain strategies and template method.

**OR**

11 Explain user interface and window systems.

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