

D 30992

Name _____

Reg. No. _____



**FIFTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
OCTOBER 2012**

IT / CS 09 501—SOFTWARE ARCHITECTURE AND PROJECT MANAGEMENT

(2009 Scheme)

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. What do you mean by code architecture view ?
2. What is an Archetype pattern ?
3. List some patterns related to proxy.
4. What is a message broker ?
5. List the principal layers in Enterprise Application.

(5 × 2 = 10 marks)

Part B

Answer four questions.

1. Explain the role of software Architecture in the context of overall software life-cycle.
2. Describe the structure and implementation of Decorator pattern.
3. Write a brief note about factory methods.
4. Explain how patterns are used in designing interactive system. Give example.
5. What is a gateway in EAI ? Explain how it works and when it can be used ?
6. Describe how lazy load works in object relational behavioural pattern.

(4 × 5 = 20 marks)

Part C

Answer all questions.

1. Explain in detail about the styles of component and connector view type.
- Or
2. Explain quantity archetype pattern and rule archetype pattern.
 3. With an example explain how interfaces and behaviour of a software can be documented.

Or

4. Describe how patterns can be applied for service variation and service extension.

Turn over

5. Explain how proxy can be implemented to control access to an object.

Or

6. Describe the role of transaction script as domain model.

7. Describe with example when bridge pattern can be used and discuss the issues in implementing bridge pattern.

Or

8. With an illustration explain how model, view and input controller roles work together in web server. Explain single stage and 2-stage view.

(4 × 10 = 40 marks)