



Reg. No. :

Name :

**Sixth Semester B.Tech. Degree Examination, May 2012
(2008 Scheme)**

Branch : INFORMATION TECHNOLOGY

08.603 : Software Architecture (F)

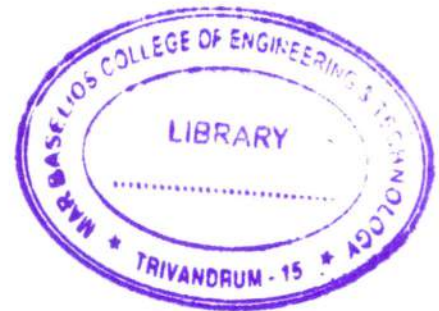
Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions. **Each** question carries **4** marks.

1. Define modeling and UML.
2. What are Links and Associations ?
3. When are two events concurrent ?
4. What are sequence models ?
5. Define flexibility and reusability of software.
6. What are Architectural Patterns ?
7. How can a software design become robust ?
8. What are Architectural quality attributes ?
9. Define "Use case driven" design.
10. What is meant by "Modifiability tactics ?



(10×4=40 Marks)

P.T.O.



PART – B

Answer **all** questions. **Each** question carry **20** marks.

Module – I

11. a) Explain use of activity diagram and DFD in design.
b) Discuss significance of Generalization and Inheritance.

OR

12. a) What are class models and state models ?
b) Explain use of interaction modeling and use case models.

Module – II

13. a) Explain attribute driven design.
b) How is reusability related to efficiency ?

OR

14. a) What is meant by the design best practices for software ?
b) Explain structural and behavioral design patterns.

Module – III

15. a) What is the relationship between software architectural patterns and tactics ?
b) Discuss the security tactics in software architecture.

OR

16. a) What are testability tactics and usability tactics ?
b) How is software architecture documented ?

(20×3=60 Marks)