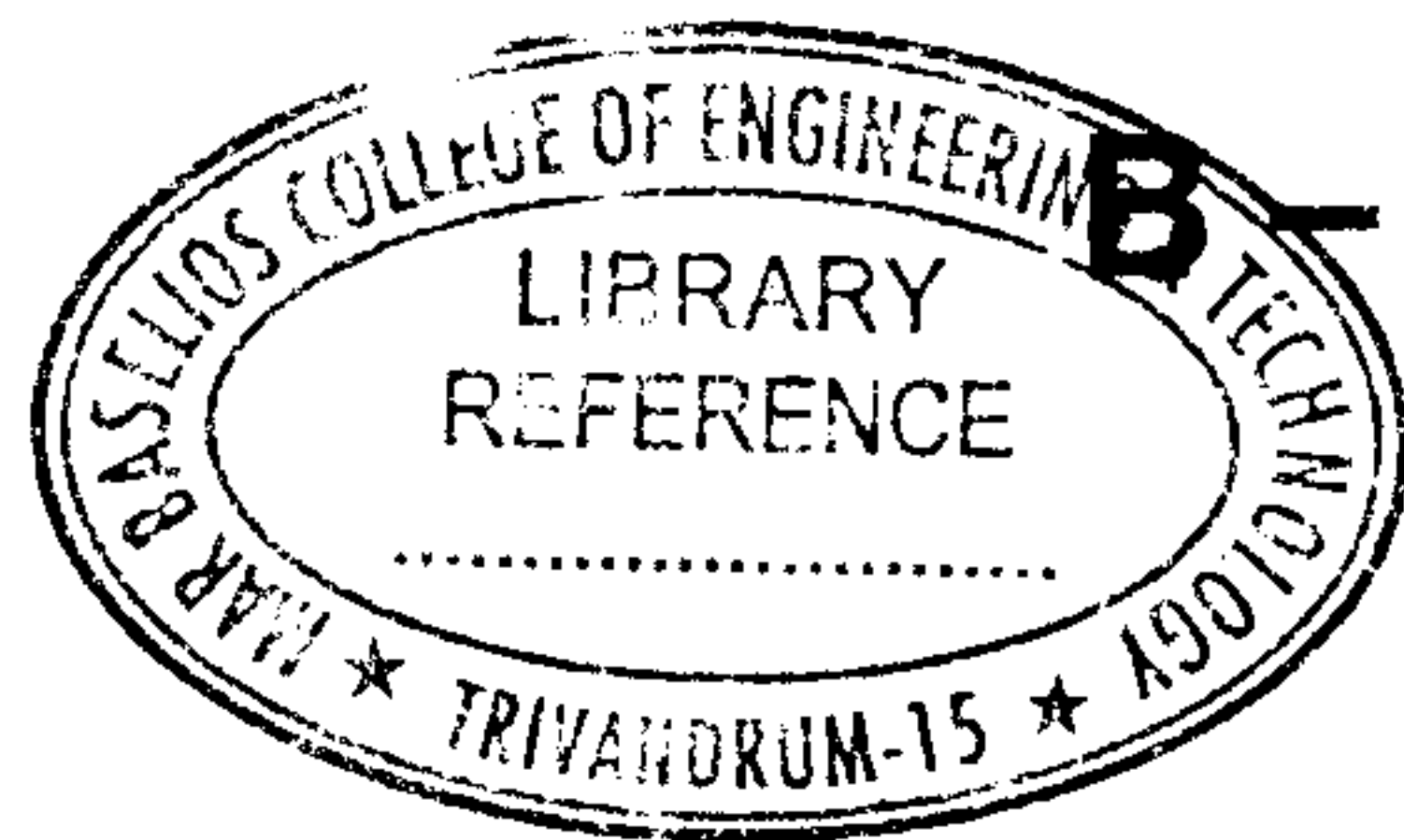




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Reg. No. :

Name :

**Sixth Semester B.Tech. Degree Examination, March 2017
(2008 Scheme)
08.603 : SOFTWARE ARCHITECTURE (F)**

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions, **each** question carries **four** marks.

1. Explain the relationship among the three models used in object oriented modeling.
2. Explain with an example multiplicity in class modeling.
3. Explain the relationship between use case diagram and sequence diagram.
4. What is extreme programming ? Discuss its approach to flexibility.
5. Define correctness ? Discuss different approaches towards correctness.
6. Explain modularization in the context of object oriented design.
7. Define robustness. Mention various approach to improve robustness.
8. Explain refactoring with an example.
9. Discuss the various definitions of Software Architecture.
10. List different quality attributes and methodology by which these can be analyzed.
(10×4=40 Marks)

PART – B

Answer **one** question from **each** Module.

Module – 1

11. a) Explain how state diagram captures the dynamic behavior of a system. 5
- b) Draw a state diagram for phone line with activities. 15

OR

P.T.O.



12. a) Write short note on use case diagrams. 5
b) Draw use case descriptions and use case diagram for a vending machine. Use cases are buy beverage, perform scheduled maintenance, make repairs and load items. 15

Module – 2

13. a) Explain the importance of design pattern with the help of an example. 10
b) Write short notes on design pattern forms :
i) Delegation 5
ii) Recursion. 5

OR

14. a) Explain the idea behind creational design pattern. Explain different types with examples. 10
b) Write short notes on :
i) View points
ii) Roles
iii) Levels. 10

Module – 3

15. What is availability ? Explain Availability tactics with example and model scenario. 20
OR
16. How performance quality attribute can be defined ? Explain performance tactics with example and model scenario. 20
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