



(Pages : 2)

7675

Reg. No. :

Name :

**Eighth Semester B.Tech. Degree Examination, November 2015
(2008 Scheme)**

08.805 (2) : SOFTWARE ARCHITECTURE (Elective – III) (R)

Time : 3 Hours

Max. Marks : 100

PART – A

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



1. Define Software architecture.
2. Define the following with an example.
 - i) Process variable
 - ii) Input variable
 - iii) Closed loop system
 - iv) Feed forward control system.
3. Explain the data elements considered in Cruise control.
4. Mention some of the problems in existing languages.
5. Differentiate between connectors and components.
6. Describe contribution analysis.
7. Mention the different design options for delivery policy.
8. Explain the various critical elements of a design language.
9. Explain the basic structural model for user-interface systems.
10. Write short notes on :
 - i) Composition
 - ii) Abstraction
 - iii) Reusability
 - iv) Configuration.

(10×4=40 Marks)

P.T.O.



PART – B

Answer **any one full** question from **each** Module. **Each** question carries **20** marks.

MODULE – I

11. a) Define blackboard architectural pattern. Briefly explain the steps used to implement a blackboard model. 10
b) Explain the layered system architectural style. Mention its merits and demerits. 10

OR

12. Explain any two architectural designs for solving the problem of KWIC (Keyword in context). 20

MODULE – II

13. a) Briefly explain the architectural structures for shared information systems. 10
b) Explain the technique of Quality Function Deployment (QFD). 10

OR

14. Explain the various statistical techniques used for analyzing design with a quantified design space. 20

MODULE – III

15. a) Explain the requirements for Architecture Description Languages. 10
b) Mention the benefits of adding implicit invocation to traditional programming languages. 10

OR

16. What is an architectural style ? Explain how an architectural style is represented. Explain any two architecture defining styles. 20

(3×20=60 Marks)