



Reg. No. :

Name :

Eighth Semester B.Tech. Degree Examination, April 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. What are the advantages of layered systems ?
2. What is meant by heterogeneous architectures ? Give examples.
3. Give an example problem where pipe and filter architectural style is not suitable for solving it.
4. How do event based systems work ?
5. How does a batch sequential system work ? Give the data flow diagram.
6. Give a basic structural model for User Interface Software.
7. What is the requirement of an architectural formalism ?
8. What is an architectural pattern ?
9. What are the abstraction available for higher level connectors ?
10. Bring out the significancs of 'types' in software architecture.



(10x4=40 Marks)

PART – B

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

MODULE – I

11. Describe how Keyword In Contest (KWIC) System is developed using abstract data type. 20

OR

12. Architectural styles can be used to compare software architectures based on different design considerations. Illustrate using mobile robotics as a case study. 20

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MODULE – II

13. a) Describe the two possible architectures for shared information systems. 10
b) What is a Quantified Design Space ? Explain with suitable examples. 10

OR

14. a) What is Quality Function Deployment Framework ? What are its advantages ? 10
b) Discuss the various steps involved in QFD process. 10

MODULE – III

15. a) What are the requirements of Architecture Description Languages ? 8
b) Illustrate how implicit invocation can be added in ADA programming language. 12

OR

16. a) Give a brief overview of Architectural Description Languages. 10
b) What is the importance of 'Style' in architectural description ? Explain how architectural design can be automated. 10



PART - B

MODULE - I