

Roll No .....

**MSE - 203****M.E./M.Tech., II Semester**

Examination, July 2015

**Software Architecture***Time : Three Hours**Maximum Marks : 70***Note :** Attempt any five questions. All questions carry equal marks.

1. a) What is software Architecture? Discuss its functional and non functional properties? 7  
b) What do you understand by frameworks? Also explain types of IT-Architectures? 7
2. a) Discuss the invariants, advantages and disadvantages of pipes and filters architectural style? 7  
b) Explain in brief the components comprising the structure of microkernel architectural pattern? 7
3. a) Explain the process control paradigm with various process control definitions? 7  
b) Discuss the various trends in SOA? 7
4. a) State the problem of KWIC. Propose abstract data types and Implicit Invocation Styles to implement solutions for the same. 7  
b) Explain the process control view of wise control architectural style and obtain the complete wise control system. 7

5. a) Draw Repository Data base, Showing control and Reporting. 7  
b) "Architecture serves as a communication vehicle among stakeholders. Documentation facilitates that communication" Justify. 7
6. a) What are views? How they serve the architecture with examples. 7  
b) Explain layers architectures pattern, with sketches and CRC cards. 7
7. a) Explain cost benefit analysis method? What part are suggested by standard organization for interface documentation. 7  
b) What are the basic requirements for a mobile robot's architecture? How the implicit invocation model handles them? 7
8. Write short note on: 14  
a) ATAM  
b) Data Abstraction and object orientation  
c) Universal connector language  
d) Internal monitoring

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