



10CS/IS81

**Eighth Semester B.E. Degree Examination, July/August 2021**  
**Software Architecture**

Time: 3 hrs.

Max. Marks: 100

**Note: Answer any FIVE full questions.**

- 1 a. List and explain activities involved in creating a Software Architecture. (10 Marks)  
b. Explain three types of Software Architecture Structures. (10 Marks)
- 2 a. Explain Repositories and Interpreters types of Architectural styles. (10 Marks)  
b. Explain shared data solution for KWIC. (06 Marks)  
c. What are the basic requirement for Mobile Robot Architecture? (04 Marks)
- 3 a. Explain general scenario for security with diagram. (10 Marks)  
b. Explain three categories of performance tactic. (10 Marks)
- 4 a. List and explain benefits and liabilities of Layered pattern. (10 Marks)  
b. Explain the steps to implement Blackboard pattern. (10 Marks)
- 5 a. Write the CRC card for three levels of PAC agents. (06 Marks)  
b. What are the objects involved in a broker system? (04 Marks)  
c. Explain the dynamic behavior of MVC along with two Scenario's. (10 Marks)
- 6 a. Explain the implementation steps of Microkernel system. (12 Marks)  
b. Explain the benefits and liabilities of Reflection Architecture. (08 Marks)
- 7 a. Explain the implementation steps of whole – part pattern. (07 Marks)  
b. What are the benefits of Master – slave design pattern? (03 Marks)  
c. Explain the dynamic scenario of proxy structure. (05 Marks)  
d. Explain any 5 variants of generic proxy pattern. (05 Marks)
- 8 a. Brief out the steps for designing the architecture by ADD method. (08 Marks)  
b. What are the seven parts of documented view? (07 Marks)  
c. Summarize the Cross – view documentation. (05 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.