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10IS81

**Eighth Semester B.E. Degree Examination, Feb./Mar.2022**  
**Software Architectures**

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting at least TWO questions from each part.**

**PART - A**

- 1 a. Explain the architecture business cycle in detail. (10 Marks)  
b. Explain the different architectural activities in detail. (10 Marks)
- 2 a. Define software architecture. Explain the different architectural styles. (10 Marks)  
b. State the problem of KWIC. Propose implicit invocation and pipes to implement solution for the same. (10 Marks)
- 3 a. Explain the quality attribute general scenario in detail. (10 Marks)  
b. Explain the security tactics with the help of neat diagram. (10 Marks)
- 4 a. Explain the dynamic behavior of pipes and filters. (10 Marks)  
b. Explain structure of slack board with CRC card. (06 Marks)  
c. What are the benefits of layered pattern? (04 Marks)

**PART - B**

- 5 a. Explain the variants of broker architecture. (10 Marks)  
b. Define pattern for software architecture and explain MVC pattern. (10 Marks)
- 6 a. State and explain the properties of reflection pattern. (10 Marks)  
b. Explain the components of microkernel pattern. (10 Marks)
- 7 a. What are the applications areas of Master Slave pattern? (10 Marks)  
b. Define proxy design pattern. Discuss the benefits and liabilities of the same. (10 Marks)
- 8 a. Explain with diagram, architecture life cycle. (10 Marks)  
b. Write short notes on :  
(i) Forming team structures. (10 Marks)  
(ii) Documenting across views.

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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.