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10CS/IS81

**Eighth Semester B.E. Degree Examination, June/July 2019**

**Software Architecture**

Time: 3 hrs.

Max. Marks:100

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

**PART – A**

- 1 a. With the help of a neat block diagram of Architecture Business Cycle (ABC), explain in detail the different activities which are involved in creating a Software Architecture. (10 Marks)
- b. What makes a “good” architecture? (06 Marks)
- c. With the help of diagram, list common Software Architecture structures. (04 Marks)
- 2 a. Define Architectural style. Mention any four commonly used styles. (10 Marks)
- b. State the problem of KWIC (Keyword in Context Index System), propose implicit invocation and pipe and filter styles to implement a solution for the same. (10 Marks)
- 3 a. Explain the Quality attribute scenarios for availability and modifiability. (10 Marks)
- b. Explain modifiability and performance tactics of prevent ripple effects and resource management. (10 Marks)
- 4 a. Explain the structure components and consequences of black board system. (10 Marks)
- b. Explain the dynamic scenarios and implementation details of Layer Architecture design pattern. (10 Marks)

**PART – B**

- 5 a. What do you mean by broker Architecture? Explain the dynamic scenarios of Broken System. (10 Marks)
- b. Explain with a neat diagram implementation details of Model View Controller (MVC). (10 Marks)
- 6 a. What is PAC (Presentation, Abstraction and Control) pattern? Explain three level structure of PAC. (10 Marks)
- b. Explain the CRC and static structure of micro Kernel system. (10 Marks)
- 7 a. Enumerate the implementation steps of reflection pattern. (10 Marks)
- b. Explain Master-Slave design pattern. (10 Marks)
- 8 a. What is Attribute-Driven Design (ADD)? Explain the steps involved in ADD. (10 Marks)
- b. What is documenting view? Explain the steps involved in documenting interfaces. (10 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.