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06CS/IS72

Seventh Semester B.E. Degree Examination, Dec.2013/Jan.2014
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. What are the factors that influence the architecture business cycle? (08 Marks)
 b. Explain software architecture structures along with relations and usefulness. (12 Marks)
2. a. Explain process control architecture style. (08 Marks)
 b. Explain the following:
 i) Abstract data type solution in KWIC.
 ii) Implicit invocation solution in mobile robotics.
 iii) Booch block diagram for cruise control. (12 Marks)
3. a. List all the system quality attributes. Explain testability tactics. (06 Marks)
 b. Explain business qualities. (04 Marks)
 c. Explain modifiability tactics. (10 Marks)
4. a. Enumerate the implementation steps of layered pattern. (10 Marks)
 b. Explain the benefits and liabilities of pipes and filter pattern. (06 Marks)
 c. What are the known uses of Black Board pattern? (04 Marks)

PART - B

5. a. Explain the structure of Broker with CRC cards. (06 Marks)
 b. Explain the implementation stages of MVC. (10 Marks)
 c. What are the known uses of PAC? (04 Marks)
6. a. Explain the dynamic scenarios of reflection with neat diagram. (10 Marks)
 b. Explain the implementation stages of micro kernel. (10 Marks)
7. a. Give the structure of whole part design pattern with CRC. (05 Marks)
 b. Explain the six phases of dynamic scenarios in Master-Slave design pattern. (10 Marks)
 c. What are the implementation steps required to carry out the proxy pattern? (05 Marks)
8. a. Explain the steps performed when designing an architecture using the ADD method. (10 Marks)
 b. Explain how to documenting a view. (10 Marks)

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 e.g. 42-8 = 50, will be treated as malpractice.