(06 Marks)

b.

What are variants of proxy pattern?

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Seventh Semester B.E. Degree Examination, June 2012

Software Architecture

Max. Marks: 100

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

P	A	R	T	_	A

1	a.	Define software architecture	. What is architecture	business cycle? Explain with a neat
		diagram.		(10 Marks)

- b. Define architectural patterns, reference models and reference architectures and bring out the relationships between them. (06 Marks)
- c. Explain the various process recommendations as used by an architect while developing software architectures. (04 Marks)
- 2 Explain the process control paradigm with various process control definitions. (06 Marks)
 - List the basic requirements for mobile robot architecture. (04 Marks)
 - c. Explain the process control view of cruise control architectural style and obtain the complete cruise control system. (10 Marks)
- What is quality attribute scenario? List the parts of scenario, with an example. (04 Marks)
 - What is availability? Explain the general scenario for availability. (08 Marks)
 - Classify security tactics. What are the different tactics for resisting attacks? (08 Marks)
- 4 List the components of pipe and filters architectural pattern. With sketches, explain the CRC cards for the same. (08 Marks)
 - b. Define blackboard architectural pattern. Briefly explain the steps used to implement the blackboard pattern. (08 Marks)
 - Write a note on the Hearsay II system. (04 Marks)

PART - B

- Define broker architectural pattern. Explain with a diagram the objects involved in a broker 5 (07 Marks)
 - Depict the dynamic behavior of MVC with any one scenario. (07 Marks)
 - Give the CRC cards for top level, intermediate level and bottom level PAC agents. (06 Marks)
- 6 What are the steps involved in implementing the microkernel system? (08 Marks) a.
 - b. Explain the known uses of reflection pattern. (06 Marks)
 - Explain the advantages and disadvantages of a reflective architectural pattern. (06 Marks)
- 7 (06 Marks)
 - Briefly explain the benefits of master slave design pattern. a.
 - List and explain the steps to implement a whole part structure. (08 Marks)
- List the steps of ADD method of architectural design. (06 Marks) 8 a.
 - Explain with a neat diagram, the evolutionary delivery life cycle model. (06 Marks)
 - What are the suggested standard organization points for view documentation? (08 Marks)