USN	The state of the s	una esta di la cama de	06IS72
	Seventh Semester B.E. Degree Examina	tion, Dec.	09/Jan.10
	Software Architect		
Time:	Note: Answer any FIVE full question at least TWO questions from a	ns, selecting each part.	Max. Marks:100
1 a. b. c.	What is a architecture business cycle? Why is software architecture important? List all the common software architecture structures. structure.	Explain the	(07 Marks) (03 Marks) component connector (10 Marks)
2 a.	Explain the architecture styles based on:		

(10 Marks) (04 Marks)

(06 Marks)

(10 Marks)

(10 Marks)

(10 Marks)

(04 Marks)

(06 Marks)

(10 Marks)

(05 Marks)

(10 Marks)

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(05 Marks)

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(05 Marks)

(06 Marks)

(04 Marks)

(10 Marks)

Data abstraction and object-oriented organization

What are the basic requirements for mobile robot architecture?

What is availability? Explain the general scenario for availability.

Classify security tactics. What are the different tactics for resisting attacks?

a. With neat diagrams, depict the dynamic behaviour of pipes and filters pattern.

PART - B

Give the CRC cards for top level, intermediate level and bottom level PAC agents. (05 Marks)

Event-based, implicit invocation

What are the benefits of a layered pattern?

Explain the variants of broker architecture.

What are the variants of proxy pattern?

Write a note on view catalog.

Give the structure of blackboard with CRC cards.

Depict the dynamic behavior of MVC, with any one scenario.

Explain the benefits and liabilities of microkernel pattern.

Enumerate the implementation steps of reflection pattern.

Give the structure of whole port design pattern with CRC.

What are the three steps for choosing views for a project?

What are the options for representing connectors and systems in UML?

What are the application areas of master slave pattern?

Explain the control loop solution for a mobile robot.

ii)

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b.