[Total No. of Printed Pages :2 Total No. of Questions: 8] rgpvonline.com Roll No MSE-203 M.E./M.Tech., II Semester Examination, December 2015 Software Architecture Time: Three Hours Maximum Marks: 70 Note: i) Attempt any five questions. ii) All questions carry equal marks. Describe functional and non-functional properties of software architecture. What are various software design patterns? Explain any two with example. What are advantages of framework in software development? b) What are the roles of a person in software design? What is unified process? Explain its architecture. 3. a) What are the characteristics of service oriented architecture? What are current trends in service oriented Analysis and design? 4 Write short notes on: Enterprise 50A ii) Quality Architecture Explain the situations where layered architecture is beneficial. b) What are the advantages of repositories during software

	c)	Explain the challenges of Heterogeneous architecture and
		proven solution for such problems. 4
5.	a)	Differentiate the term 'data abstraction', 'data
		Encapsulation' and 'data hiding'.
	b)	What are the usage of pipes and filters?
	c)	How event based system are designed using object oriented approach?
5.	a)	What are various tools available for architecture design?
		Explain any one. 5
	b)	Describe observations needed for environmental studies
		for architectural design. 5
	c)	Define the term 'Requirement Analysis'. Explain
		necessary steps for requirement analysis. 4
7.	a)	Write short notes on:
		i) Mobile Robotics
		ii) Instrumentation software
	b)	What are various issues of interoperability to develop internet based projects?
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	C)	Explain the term 'Cruise control'. Give examples to explore the term.
8.	a)	Apply Cost Benefit Analysis Method (CBAM) while
		designing online Railway Reservation system. 7
	b)	Write short notes on:
		i) Life cycle of software Architecture
		ii) Process control
		iii) Automated support of Architecture Design

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