Time: 3 Hours

SEAT NO.:

[Total No. of Pages: 2]

Max. Marks: 100

B.E. 2008 (Computer Engineering) Software Architecture

(Elective -I) (Semester - I)

		o the candidates:			
1)	Answers to the two sections should be written in separate answer books.				
2)	Answer(Q1 or Q2) and (Q3 or Q4) and (Q5 or Q6) from section I.				
3)	3) Answer(Q7 or Q8) and (Q9 or Q10) and (Q11 or Q12) from section II.				
4)		diagrams must be drawn wherever necessary.			
5)		es to the right side indicate full marks.			
6)		ne Suitable data if necessary			
	8				
	1	SECTION I			
Q1)	a)	What is software Architecture? With diagram explain Architecture Business	[10]		
		Cycle.	[10]		
	b)	Explain various software architecture Structures.	[8]		
		OR	[o]		
Q2)	a)	"Architectures are influenced by stake holders", Explain in detail	[8]		
- /	b)	How is software architecture different from software design?	[5]		
	c)	Explain 4+1 view architecture.	[5]		
Q3)	a)	What is quality attribute scenario? Using diagram list and explain parts of quality	[6]		
		attribute scenario.	[0]		
	b)	Explain tactics for fault detection.	[6]		
	c)	Explain any two quality attributes in brief.	[4]		
		OR	r.1		
Q4)	a)	Explain testability tactics.	[8]		
	b)	With scenario explain performance and usability quality attributes	[8]		
Q5)	a)	Define Design pattern. What are the types of design patterns? Explain in brief.	[8]		
	b)	Explain Abstract Factory pattern with intent, structure and example.	[8]		
		OR	[-]		
Q6)	a)	What is mediator pattern? Explain using example.	[8]		
	b)	Give structure of Façade. Explain with real life example.	[8]		
		SECTION II	[-]		
Q7)	a)	Explain role of middleware in 3-tier architecture.	[6]		
	b)	Explain EJB components and interfaces.	[6]		
	c)	What is socket? Enlist and explain different classes used in Java for socket	[6]		
		programming.			
		OR			
Q8)	a)	Explain in brief various components of J2EE.	[8]		
	b)	Write note on application server.	[6]		
	c)	Write note on XML.	[4]		
Q9)	a)	Explain various technologies available to develop client side.	[8]		
	b)	Explain n-tier web architecture.	[8]		
		OR			
Q10)	a)	Explain following -	[8]		
		i) XML DOM			
		ii) ActiveX controls			

044	b)	Write note on HTML. Differentiate between HTML and DHTML.	[8]
Q11)	a)	With neat diagram explain MVC. Also explain how it is supported by Java.	[8]
	b)	What is Service Oriented Architecture.	[8]
		OR	[0]
Q12)	a)	Explain servlet life cycle.	
	b)	Write note on following	[8]
		i) JSF	[o]
		ii) ISP	