Total No	o. of Questions : 12] SEAT	Г No. :	
P804	[4659] - 217	[Total No. of Pages	: 3
	B.E.(IT)		
	SOFTWARE ARCHITECTURE		
	(2008 Pattern) (Elective - III (b)) (Semes	ter - II)	
Time: 3 Hours] [M			100
	ions to the candidates:		
1)	Answer Question 1 or 2, 3 or 4 and 5 or 6 from Section - I at 10 and 11 or 12 from Section - II.	nd Question 7 or 8, 9	or or
2)	Answers to the two sections should be written in separate of	answer books.	
3) 4)	Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks.		
<i>5)</i>	Assume suitable data, if necessary.		
	<u>SECTION - I</u>		
Q1) a)	Define the given term/concept and give examples.		[6]
	i) Software architecture		
	ii) Stakeholders in architecture.		
b)	Write short note on documenting software architec	cture.	[4]
c)	Explain Architectural Business Cycle (ABC) in deta	ail.	[8]
	OR		
Q2) a)	How Architectures are influences by stakeholders?		[6]
b)	What do you understand by components and com	nectors?	[4]
c)	How the collaboration can be used to model the sy and connectors.	·	nts [8]
03) a)	Explain Templates for documenting interfaces		[8]

(23) a) Explain Templates for documenting interfaces.

[8]

b) Following concern in context of modifiability: "when is a change made and who makes it". [8]

OR

- **Q4)** a) What is Availability? Discuss availability tactics for Fault detection. [8]
 - b) What is Quality Attributes? Explain quality attributes of web application?[8]

Q5)	a)		at are design patterns, why do we need them, give an example design ern?	gn 8]		
	b)		cribe Abstract Factory pattern with respect to intent, application artion.	nd 8]		
			OR			
Q6)	a)	Write a short note on Model View Controller (MVC) and its application				
	b)		v observer pattern can be used to design a digital and an analogk. Explain with the structure and behavior?	og 8]		
			SECTION - II			
Q7)	a)	Explain three-tier architecture with reference to presentation, busing and persistence layers.				
	b)	Exp	lain the concept of	8]		
		i)	Loose Coupling.			
		ii)	Addressing Quality attributes through multi tier architecture.			
			OR			
Q8)	a)	Con	npare different architecture styles. [1	0]		
	b)	Wri	te short note on	8]		
		i)	Coupling in XML			
		ii)	Structure of XML			
Q9)	a)		at do you understand by the three types of EJB beans, Explain wi	th 8]		
		i)	Entity Beans			
		ii)	Message Beans			
		iii)	Session Bean			
		iv)	Use of EJB in three-tier architecture.			
	b)	Con	npare and contrast EJB 2.0 and EJB 3.0	8]		

Q10,) a)	Draw a neat J2EE architecture diagram showing different technologies SUN like (JDBC, JMS) What is the advantage of J2EE architecture?				
	b)	Explain with example and Advantages of				
		i)	Web Server			
		ii)	Application Server			
Q11,	1)a) What kind of responsibilities does a web client have? How can make web client more dynamic.					
b)		Writ	te short note on	[8]		
		i)	Components and Interfaces			
		ii)	Dynamic Link Library			
			OR			
Q12)Short Notes on				[16]		
	i)	.NE	T web services			
	ii)	.NE	T Remoting			
	iii)	.NE	T assemblies			
	iv)	Lega	acy Application			