Total No. of Questions : 12] P1887		SEAT No. :
		[Total No. of Pages : 2
	[5059]-207	

B.E. (Computer Engineering) SOFTWARE ARCHITECTURE

(2008 **Pattern**)

Time: 3 Hours] [Max. Marks: 100

Instructions to the candidates:

- 1) Answers to the two sections should be written in separate answer books.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.

SECTION - I

- **Q1)** a) Explain software architecture and functional nonfunctional requirements. [6]
 - b) Write short notes on

[12]

- i) Software design
- ii) Synchronous and asynchronous messaging

OR

- **Q2)** a) Write short note on software architecture and 4+1 views. [8]
 - b) Explain software architect and his/her role in IT industry. [10]
- **Q3)** Explain the given terms in context of QUALITY.

[16]

- a) Importance of achieving 'performance' for any system.
- b) Quality attributes
- c) Testability
- d) Relationship between design and quality

OR

- **Q4)** Explain and illustrate the following concepts (in context of quality attribute/tactics) with examples, in brief [16]
 - a) USABILITY
 - b) Interfaces and ease of modifiability
 - c) Authentication as a security tactic
 - d) Performance, response time, throughput

Q 5)	a)	Give intent/motivation for Singleton pattern, with examples.	[8]	
	b)	Write short note on MVC pattern.	[8]	
		OR		
Q6)	Whi	ch design pattern will you choose in following CONTEXT and why	?	
	a)	Explain how the pattern will work with UML diagrams, CONTEX	XT is	
		that you wish to create objects in your application Dynamically?	[8]	
	b)	Write short note on MEDIATOR pattern	[8]	
		SECTION - II		
Q7)	a)	a) Compare the java world and Microsoft world for their offerings .NI and J2EE.		
	b)	What is the role of JAVA SE, JAVA EE technologies? OR	[9]	
Q8)	a)	Discuss how JDBC is used by web applications.	[9]	
	b)	What is the need of J2ME and Java APIs?	[9]	
Q9)		rief explain the concept and give good examples to illustrate.	[16]	
	a)	Server side responsibilities.		
	b)	XMLDOM		
	c)	Custom controls in VB		
	d)	Need for JSF		
		OR		
Q10)Exp	lain following Web Client side concepts through simple examples.	[16]	
	a)	Browser differences		
	b)	Use of active X controls		
	c)	XHTML		
	d)	Java applets		
Q11,) a)	Explain role of server side in a typical website and UDDI	[8]	
	b)	List and explain advantages of java and struts. OR	[8]	
Q12) a)	Explain interfaces and DLL servers in context of COM/.NET.	[8]	
	b)	Write short note on .NET and advantages of .NET.	[8]	
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