Total No. of Questions: 12]

SEAT No. :

P2823

[5154]-204

[Total No. of Pages : 3

B.E. (Information Technology) **SOFTWARE ARCHITECTURE**

(2008 Pattern) (Semester - II) (Elective - III)

Time: 3 Hours] [Max. Marks:100

Instructions to the candidates:

- 1) Answer three Que. from Section I and three Que. from Section II.
- 2) Answers to the two sections should be written in separate answer books.
- 3) Figures to the right indicate full marks.
- 4) Make suitable assumptions wherever relevant and appropriate.

SECTION-I

Q1) a) Explain in details Software Structures.

[10]

b) Explain with suitable example:

[8]

- i) Architecture is high level design.
- ii) Architecture is the overall structure of the system.
- iii) Behavior of each software element is part of the architecture.
- iv) Architecture has component & connectors.

OR

Q2) a) Explain Architecture Business Cycle activites in detail.

[10]

b) How Architectures are influences by stakeholders?

[8]

Q3) a) Write short note on follwoing:

[8]

- i) Modifiability Tactics
- ii) Security Tactics
- b) What is Quality Attributes? Explain quality attributes of web application?[8]

Q4)	a)	Following concern in context of modifiability: "when is a change and who makes it".								
	b)	What	t is Availability? Discuss availability tactics for Fault detection. [[8]						
Q5)	a)	Wha	t can a Facade pattern do for us, Illustrate with an example.	[8]						
	b)	Write	Write a short note on model View Controller (MVC) and its application							
	OR									
Q6)	a)		observer pattern can be used to design a digital and an anal- c. Explain with the structure and behavior?	og [8]						
	b)	What are design patterns, why do we need them, give an example opattern?								
	SECTION-II									
Q7)	a)	-	ain three -tier architecture with reference to presentation, busine persistence layers. [1]	ess .0]						
	b)	Write	e short note on following:	[8]						
		i)	Coupling in XML.							
		ii)	Loose coupling.							
			OR							
Q8)	a)	Com	pare Different architecture styles. [1	0]						
	b)	Expl	ain concept of:	[8]						
		i)	Structure of XML							
		ii)	Addressing quality attributes through multi tire architecture.							

2

Q9) a)	Write short note on following:									
	i)	JSP	ii)	JSF						
b)	Explain with example and advantages of									
	i)	Web Server								
	ii)									
OR										
<i>Q10</i>)a)	Compare and contrast EJB 2.0 and EJB 3.0									
b)	Exp	[8	;]							
	i)	Entity Beans								
	ii)	Session Beans								
<i>Q11)</i> a)		at kind of responsibilities te web client more dynami	es a web client have? How can on [8							
b)	Wri	Write Short note on								
	i)	Components and Interface	ces							
	ii)	Dynamic Link Library								
OR										
Q12) a)	Explain DLL Servers in detail									
b)	Write short note on following:									
	i)	NET web services								
	ii)	Legacy Application								
		&€	100°	≈ 5						