Total No. of Questions : 8]	SEAT No.:
P3633	[Total No. of Pages : 2

[5560] 589 T. E. (Computer Engineering) SOFTWARE MODELING AND DESIGN

(2015 Pattern) (Semester - II)(310253)			
		[Max. Marks :7] ions to the candidates;	70
	1)	Q. 1 and Q. 2 are compulsory. Solve Q. 3 or Q. 4, Q. 5 or Q. 6, Q. 7 or Q. 8.	
	2)	Assume spitable data if required.	
	3)	Figure to the right indicate full marks.	
Q 1)	a)	Explain difference between procedural/structural and Object-Oriente paradigm of design.	ed 5]
	b)	Write a use case specification for the use case: User authentication? [5]	5]
Q_2	a)	Draw sequence diagram for Event registration system?	5]
	b)	Why class diagram is important in static modeling? Explain different relationship used in class diagram?	nt 5]
Q 3)	a)	Explain synchronous communication pattern in client server architectur with example?	re [6]
	b)	Explain Location & Platform transparency in service oriented architecture	e? [6]
	c)	Write short notes on [6	6]
		i) web registration services	
		Explain Location & Platform transparency in service oriented architecture Write short notes on i) web registration services ii) Brokering & discovery services OR	
Q4)	a)	Explain asynchronous message communication with call back patter	m 6]
	b)	Explain important characteristic of real time software architecture? [6]	6]
	c)	Explain dynamic view of software architecture with the help of example?[0]	6]

Q 5)	a)	Explain proxy pattern? Describe its intent, motivation, Applicability & implementation with example? [6]
	b)	Draw structure of observer pattern with suitable class diagram including subject and observer? [6]
	c)	Write short note on [4]
		i) Port provided & required interface
		ii) Real time software architecture
		OR
Q6)	a)	Explain Behavioral Design Pattern in short? [4]
	b)	Explain factory pattern? Describe its intent, motivation & implementations with example? [6]
	c)	What is singleton pattern? Explain one example scenario where you will Singleton pattern to get applied? [6]
Q7)	a)	What is integration testing; Explain its type in details? Define Stub & Driver? [8]
	b)	What is Black box testing? Why it is called BBT? Also explain boundary value analysis? [8]
Q8)	a)	Explain graph based testing with suitable example? [6]
	b)	Compare white box testing and black box testing. [4]
	c)	What is performance testing? List few tools of performance testing? [6]
		What is performance testing? List few tools of performance testing? [6]