VT-F.H.Exam. April.-12-125

## BEICMPNIVIII (Rev) 1515/2012 Software Architecture GN-7418

Con. 3634-12.

## (REVISED COURSE)

		( 3 Hours ) [ Total Marks :	100
N.B		Question No. 1 is compulsory.  Solve any four questions from remaining.  Assume suitable data wherever necessary.	
1.	Mar	gn Domain-Specific Software Architecture (DSSA). For the Theater Ticket agement system. Assume suitable entities, attributes etc. Domain model must sts following:—	
	(	Domain Dictionary and Information Model.  Feature Model and Operational Model.	10 10
2.	(a)	Explain with a suitable example the event type connector and its variation dimensions.	10
	(b)	Define the following terminology:—  (i) Configuration  (ii) Architectural style  (iii) Architectural patterns  (iv) Accuracy and precision  (v) Views and viewpoints.	10
3.	(a)	Define Architectural analysis. Discuss various analysis goals with an example ?	10
	(b)	Explain with an example stakeholder driven modeling.	10
4.	(a)	Explain various designing issues for following non-functional properties:—  (i) Efficiency and Complexity  (ii) Scalability and Hetrogeneity.	10
	(b)	Discuss Service-Oriented Architectures (SOA) and Web Services.	10
5.	(a)	Explain with the help of suitable diagram Architectural Trade-off Analysis Method (ATAM).	10
	(b)	Explain the existing frameworks for the pipe-and-filter and C2 Architectural style.	10
6.	(a) (b)	Discuss an Architectural Conception in Abscence of Experience.  Explain with an example Software System Mobility and Architecture.	10 10
7.	(		20