Paper / Subject Code: 88986 / Elective - II Software Architecture

Please check whether you have got the right question paper

T.E. (IT) (Sem-VI) (CB)

Doute-16/12/19

[TIME: 3 HOURS]

[MARKS: 80]

Note:	1. Question No. 1 is compulsory	
	2. Attempt any three questions out of the remaining questions	
	3. Make suitable assumptions whenever necessary	
Q.1. Define and explain the following terms:		
	a) Goals of Analysis	(05)
	b) Issues in Software Architectural Design	(05)
	c) Task Structure Matrix	(05)
	d) Psychology and Philosophy of Design	(05)
Q.2.	a) What is the significance of Software architecture in design? Define component,	
	connector, ADL and configuration.	(10)
	b) Explain the concept of models in detail along with their usage and roles	(10)
Q.3.	a) Explain Architectural Trade Off Analysis Method (ATAM).	(10)
	b) Explain Broker architecture. Give example of an application where broker architecture	
	would be the right choice. Give its benefits and liabilities.	(10)
Q.4.	a) Explain Architectural Description Language (ADL) in detail	(10)
	b) What is architectural pattern? List the categories, in which architectural patterns	(10)
	are grouped. On what basis the architectural pattern is selected.	(10)
Q.5.	a) Explain with example layered architectural pattern and state its benefits and	
	liabilities.	(10)
	b) You have to develop an Operating System, between layered and pipe-filter which	(10)
	you will select, justify you answer. List situation where pipe-filter is suggested.	(10)
		(10)
Q.6.	Write Short notes on any two of the following	(20)
	a) Meta Models	()
	b) Ambiguity, Accuracy and precision in the characterization of architectural models	
	c) Software Product Life Cycle.	
