R16

Q.P. Code: 16CS5810

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

I Year M.Tech II Semester (R16) Regular Examinations May/June 2017 SOFTWARE ARCHITECTURE AND DESIGN PATTERNS

(Computer Science & Engineering) (For Students admitted in 2016 only)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 X 12 = 60 Marks)

UNIT-I

		UNIT-I	
Q.1	a.	What is software architecture? Explain the use of software architecture in	
		designing a system	6M
	b.	Explain in detail about architectural structures and views.	6M
		OR	
Q.2		Is achieving quality attributes must be considered throughout design,	
		implementation and deployment? (Y/N). Justify your answer.	12M
		UNIT-II	
Q.3	a.	Explain the benefits that flow from holding architectural inspections.	6M
	b.	What are the properties of successful evaluation? Explain.	
			6M
		OR	
Q.4		Explain in detail about ATAM.	12M
		UNIT-III	
Q.5	a.	Explain the elements of patterns and the way you organize the catalog.	6M
	b.	Explain how design patterns solve design problems.	6M
		OR	
Q.6	a.	Explain about the Factory Method pattern.	6M
	b.	Write brief notes on singleton pattern.	6M
		UNIT-IV	
Q.7	a.	Write short notes on chain of responsibility.	6M
	b.	Write the importance and when we apply the visitor pattern.	6M
		OR	
Q.8		Explain in detail about interpreter pattern and iterator patterns.	12M
		UNIT-V	
Q.9		Give a case study to utilize architectural styles.	12M
		OR	
0.10		Give a case study for product line development.	12M