B.Tech Sem – VI (2007 Course) (Computer Engg.) : SUMMER - 2019 SUBJECT: SOFTWARE ANALYSIS AND DESIGN

Day Date	: :	Friday Time 24/05/2019 Max. I S-2019-3113	: 02.30 PM TO 05.30 PM Marks: 80	
N.B.	:			
	1) 2) 3) 4) 5)	Q. No. 1 and Q. No.5 are COMPULSORY. Out of the remaining attempt ANY TWO questions from each Section. Figures to the right indicate FULL marks. Answer to both the sections should be written in SAME Answer book. Use of non- programmable electronic CALCULATOR is allowed. Assume suitable data, if necessary.		7
SECTION - I				
Q.1	a)	What is a prototype? Under what circumstances it is beneficial to construct a prototype? Does the construction of prototype always increase overall cost of software development? Justify.)
	b) c)	Define measure, metric and indicators with suitable exa List and discuss the activities that are carried out during		
Q.2	a)	What is software development life cycle (SDLC)? Discuss various phases of SDLC. Explain with example what type of software can be developed using spiral model. Is the number of loops of spiral fixed for different development project, if not explain how the number of loops in spiral is determined?)
	b))
Q.3	a)	What is software project planning process and what are Explain.	its major activities? (07)	l
	b)	What is risk? What are risk management activities? Is it the risk? Explain.	t possible to prioritize (06)	I
Q.4	a) b)	Define the concept of cohesion and Coupling and expla Define software architecture. What is architectural level architecture design process.		
SECTION – II				
Q.5	a)	Describe five desirable characteristics of a good require document.	ement specification (05)	
	b) c)	Differentiate between transform and transaction flow. Comment on ISO 9000 and SEI Standards.	(05) (04)	
Q.6		Draw the Data flow diagram and control flow diagram t flow in 'Airline ticket reservation system'.	to model the data (13)	
Explain in d		What is user interface design? How much it is useful in Explain in detail the user interface design activities.	system design? (07)	
		Describe in detail the various methods in black box test	ing. (06)	
Q.8	a)	What is Software Configuration Management (SCM)? It tools used in SCM.	•	
	b)	Explain what is meant by Unified modeling language (UML)? Discuss the various diagrams in UML. (06)		

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