

3 I	Hours / 100	0 Marks	Seat No.								
	Instructio	(2) Answe (3) Illustr (4) Figure	estions are comer each next mate your answetes to the right in the suitable data,	in que rs with ndicate	stion (neat e full	sketcl marks	hes wh	_	r nece	essary	
										N	Iarks
1.	A) Attempt any	three of the follow	ing:								12
	i) Define Software. State three characteristics of software.										
	ii) What is software coding? State three principles of code validation.										
		the terms : Analysis	_	_		_					
	 iv) Differentiate between Prescriptive Process Model and Agile Process Model (a points). 							l (any	four		
	B) Attempt any	B) Attempt any one of the following:								6	
	i) Describe	the layered techno	logy approach of	Softw	are Er	nginee	ring.				
	ii) Draw a d	ata flow diagram le	evel 0 and level 1	for a I	Book I	Publis	hing H	louse.			
2.	Attempt any four	r of the following:									16
	a) Define the te engineering.	 Define the terms software process, software product, software work product a engineering. 				and so	oftwar	e			
	b) What is SRS	b) What is SRS? Explain importan									
	c) What is domain analysis? Explain with suitable examples.										
	d) Describe the 1	relationship betwee	en systems engine	eering	and so	ftware	engin	eering	y.		
	e) Draw a use ca	ase diagram for a E	Bank Manageme	nt Syst	em.						
	f) What is Wate	erfall Model ? State	the practical situ	ations	in wh	ich it	can be	used.			
3.	Attempt any four	ttempt any four of the following:						16			
	a) State and exp	olain any four types	s of software.								
	b) What is Requ	irements Elicitatio	n? What are the	proble	ns fac	ed in e	elicitin	g requ	ireme	nts?	
	c) Explain the ir	mportance of SRS.									
	d) What is Data	Modelling? Expla	in the terms card	inality	and m	odalit	у.				
	e) Draw a use ca	ase diagram for a n	nusic system.								

		Ma	rks
4.		Attempt any three of the following: i) What aspects of the software are tested in Unit Testing? ii) State any four basic principles to be followed for project scheduling. iii) Define the terms: Software Reliability and Software Availability. iv) Compare Alpha Testing and Beta Testing. Attempt any one of the following: i) What are the activities involved in SCM? ii) What is Software Quality Assurance? What are the activities carried out in SQA?	6
5.	Att	rempt any two of the following:	16
	a)	What is Software deployment? State the principles to be followed while preparing to deliver the software increment.	
	b)	What is project scheduling and tracking? State four reasons why project deadlines cannot be met.	
	c)	What is CMMI ? State two objectives of CMMI. Briefly explain the CMMI maturity levels.	
6.	Att	rempt any four of the following:	16
	a)	Compare top-down and bottom-up approach used for integration testing.	
	b)	Describe different debugging strategies.	
	c)	What is software risk? Explain types of software risks.	
	d)	List different ways in which the project schedule can be tracked.	
	e)	Compare software verification and software validation.	
			