

3 Hours/100 Marks	Seat No.	
Instructions:	 (1) All questions are compulsory. (2) Illustrate your answers with neat sketches wherever necessary. (3) Figures to the right indicate full marks. (4) Assume suitable data, if necessary. 	
	Mark	S
ii) Differentia iii) What is pro	ree of the following: nanging nature of software. be between validation and verification. ject scheduling and tracking? its of ISO standards.	2
i) Describe le	ne of the following : vel-O-DFD with suitable example. n modelling principles.	6
b) Describe whitec) Explain six sigd) Describe watee) Explain seven	ejects and data attributes with suitable example. -box testing.	6
b) Explain unit tec) Define and expd) Explain differe	e and proactive risk strategies ?	6

		MA	RKS
4.	a)	Attempt any three of the following: i) Explain software decomposition technique. ii) Describe integration testing approaches: i) Top-down integration ii) Bottom-up integration. iii) Explain four principles of analysis modeling. iv) Describe debugging process.	12
	b)	Attempt any one of the following: i) Describe CMMI. ii) Explain spiral model with diagram.	6
5.	a) b)	empt any two of the following: Describe communication practices in engineering. Explain briefly its different principles. Explain SCM scenario and also explain SCM features. Describe RAD process model with neat diagram and its advantages.	16
6.	a) b) c) d)	empt any four of the following: Differentiate between alpha and beta testing. Describe software engineering as a layered technology. Describe people factor in s/w management spectrum. What are McCall's quality factors? Describe regression testing and smoke testing.	16