## B.Sc.- III (CBCS Pattern) Sem-V USCST09.3 - Elective-IV - Computer Science-IV : Software Engineering

	Pages : 1 ne : Three H	Iours $H = 1 + 2 - 7 + 2 - 4$ Max. Marks	
	Notes :	<ol> <li>All questions are compulsory and carry equal marks.</li> <li>Draw neat and labelled diagrams wherever necessary.</li> <li>Avoid vague answers and write answers relevant and specific to questions only.</li> </ol>	
	Eit	her :	
1.	a)	Discuss the Capability Maturity Model Integration in brief.	5
	b)	What is process patterns and process assessments? Explain it.	5
		OR	
	c)	Define Software Engineering. What are the role of software in software engineering.	5
	d)	What do you mean by a layered technology and process framework?	5
	Eit	her:	
2.	a)	Explain waterfall model in detail.	5
	b)	What is functional and non-functional requirements? Explain it.	5
		OR	
	c)	Discuss in brief user's requirements and system requirements?	5
	d)	Explain the requirements engineering process in detail.	5
	Eit	her:	
3.	a)	Write a note on context model.	5
	b)	Distinguish between design process and design quality.	5
		OR	
	c)	Explain software architecture in brief.	5
	d)	Define system model and explain the concept of design.	5
	Eit	her:	
4.	a)	What is the concept of test strategies for conventional software?	5
	b)	Explain the following terms-	5
		i) Metrics for analysis model ii) Metrics for design model <b>OR</b>	
	c)	Write a note on metrics for source code and metrics for testing.	5
	d)	Define testing. Explain white box testing.	5
5.	Att	empt all the questions.	
	a)	Explain the concept of changing nature of software.	<b>2</b> <sup>1</sup> / <sub>2</sub>
	b)	Write a note on requirement validation.	<b>2</b> <sup>1</sup> / <sub>2</sub>
	c)	Explain the architectural styles and patterns.	<b>2</b> <sup>1</sup> / <sub>2</sub>
	d)	What are merits for software quality?	<b>2</b> <sup>1</sup> / <sub>2</sub>

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