M.E. First Semester (Information Technology) (Full Time) (C.G.S.)

13422 : Elective - I : Software Engineering Methodologies 1 NMEF 5

	Pages : ne : Th	2 rece Hours * 0 3 0 0 *	AU - 3305 Max. Marks : 80
	Note	es: 1. Assume suitable data wherever necessary. 2. Illustrate your answer necessary with the help of neat sketches. 3. Use of pen Blue/Black ink/refill only for writing the answer book.	
1.	a)	Differentiate between waterfall model and incremental model in view of app	licability. 6
	b)	What do you mean by process assessment? Hence explain the impact of procoutcomes.	cesses and 7
		OR	
2.	a)	Discuss the software process framework, thus justify its importance in softwengineering.	are 7
	b)	Explain the followings. i) Unified process. ii) Agile process.	6
3.	a)	Explain a spiral view of the requirements engineering process.	7
	b)	Discuss and describe domain requirement with an example.	7
		OR	
4.	a)	What do you mean by Non-functional requirement? Explain types of Non-furequirement.	nctional 7
	b)	Explain requirement discovery is the process of gathering information about system and existing system.	the required 7
5.	a)	Justify UML concept in the context programming in small and programming	in large. 7
	b)	What is OCL? Explain with an example.	6
		OR	
6.	a)	Explain UML metamodel with its importance and application.	7
	b)	What are the specification techniques of diagrams in UML.	6
7.	a)	Explain any one behavioral model using component diagram and use cases.	7
	b)	Explain activity diagram useful in taking decisions.	7
		OR	

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8.	a)	What is data dictionary? Describe and explain with use cases.	7
	b)	Explain dynamic behavior of a system using sequence diagram.	7
9.	a)	What are the issues to be consider during design model of a system.	7
	b)	Explain the advantages of abstract data type styles and repository.	6
		OR	
10.	a)	Describe design quality for a system and explain how to improve by imparting design concepts.	7
	b)	Discuss the issues in software architectural design.	6
11.	a)	What are the features of object oriented design? Thus explain the importance in software engineering.	8
	h)	What do you mean by modeling associations?	5
		OR	
12.	a)	Explain cohesion of object and coupling between objects.	7
	b)	Explain with neat sketches entity, boundary and control modeling.	6

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