CBCS Scheme

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USN			

16MCA34

Third Semester MCA Degree Examination, Dec.2017/Jan.2018 Software Engineering

			Andrai 90		
Tin	ne: 3	3 hrs. Max. N	1arks: 80		
Note: Answer FIVE full questions, choosing one full question from each module.					
Module-1					
1	a.	What is software? Explain the attributes of good software.	(06 Marks)		
	b.	Explain the professional responsibilities of a software engineer.	(05 Marks)		
	c.	What are the basic principles of agile software development?	(05 Marks)		
		OR			
2	a.	Explain the Waterfall model with its merits and demerits.	(08 Marks)		
	b.	List and explain the extreme programming practices	(08 Marks)		
		Module-2	(08 Marks)		
3	a.	Explain the general structure of a requirements document suggested by IEEE.	(08 Marks)		
	b.	Explain notations used for writing system requirements specification.	(00 Marks)		
OR					
4	a.	Explain the requirements elicitation and analysis process.	(08 Marks)		
-	b.	With a neat diagram, explain the CBSE process.	(08 Marks)		
	υ.	With a near diagram, explain one			
		Module-3			
5	a.	Explain the four types of system models with example.	(12 Marks)		
	b.	Discuss functional and non-functional requirements with examples.	(04 Marks)		
		OR OR			
6	a.	What is architecture? Explain the role of software architecture.	(06 Marks)		
	b.	Briefly explain the three architecture views.	(10 Marks)		
		Modulo 4			
-	12	Module-4	(08 Marks)		
7	a.	Briefly explain software as a service. Explain the most important design issues that have to be considered in distribution.			
	b.	engineering,	(08 Marks)		
		engineering	,		
		OR			
8	a.	Discuss the two-tier client-server architecture used for distributed systems.	(08 Marks)		
	b.	Write a note on function-oriented design.	(08 Marks)		
			(SO)		
		Module-5			
9	a.	What is software testing? Explain the following black box testing techniques:	(100 7/6 7/10)		
i) Equivalence partitioning ii) Boundary value analysis (08 Marks)					
b. What is white box testing? Explain control flow based criteria and data flow based testing. (08 Marks)					
			(00)		
		OB			

OR

a. Discuss project scheduling and staffing.
b. What is risk management? Briefly explain the risk management activities.
(08 Marks)
(08 Marks)

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