

CBCS SCHEME

16/17MCA34

Third Semester MCA Degree Examination, June/July 2019 **Software Engineering**

Time: 3 hrs.

Max. Marks: 80

Note: Answer FIVE full questions, choosing ONE full question from each module.				
Module-1				
1	a.	What is Software Engineering? Explain the attributes of good software.	(06 Marks)	
	b.	What are the key challenges facing software engineering?	(05 Marks)	
	c.	What are the basic principles of agile software development?	(05 Marks)	
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2		OR OR		
2	a.	Explain the waterfall model with its merits and demerits.	(08 Marks)	
	b.	Explain extreme programming in detail.	(08 Marks)	
		Module-2		
3	a.			
	b.	Explain the general structure of a requirements document suggested by IEEE.	(08 Marks) (08 Marks)	
			(1111111)	
		OR		
4	a.	Explain the requirements elicitation and analysis process with a neat diagram.	(08 Marks)	
	b.	What is CBSE? Explain the basic elements of component model.	(08 Marks)	
Module-3				
5	a.	Explain the four types of system models.	(00 Maulia)	
	b.	Explain the following: i) Class diagram ii) Context diagram.	(08 Marks) (08 Marks)	
			(00 Marks)	
OR				
6	a.	Briefly explain the four architectural views.	(08 Marks)	
	b.	Explain architectural styles of Component and Connectors (CC) in brief.	(08 Marks)	
	Modulo 4			
7	a.	Module-4 What are the most important design issues that have to be considered in distributed systems		
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	b.		(08 Marks) (08 Marks)	
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		OR		
8	a.	Illustrate Multi-Tier Client-Server architectures.	(08 Marks)	
	b.	Briefly discuss about coupling and cohesion.	(08 Marks)	
Module-5				
9	a.	What is black box testing? Explain about equivalence partitioning and be	oundary value	
		analysis.	(08 Marks)	

- (08 Marks)
 - b. What is white box testing? Explain control flow based criteria and data flow based testing. (08 Marks)

OR

- What is Risk Management? Briefly explain the Risk Management activities. 10 (08 Marks)
 - Discuss about project scheduling and staffing.

(08 Marks)

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8=50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.