CRCS SQUEME

William St.					
USN			18MCA14		
SECTION IN COLUMN					

First Semester MCA Degree Examination, Dec.2019/Jan.2020 **Software Engineering**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

a. What is Process Model? Explain the essential attributes of Good Software. (10 Marks) b. Discuss the various issues in Software Engineering Professional Responsibility and IEEE code of ethics. (10 Marks)

OR

a. Discuss the process involved in waterfall and incremental model with advantages and b. Explain in detail the principles of Agile methods and discuss merits and users of Extreme Programming. (10 Marks)

Module-2

a. Describe requirements elicitation and Analysis process with example. (10 Marks) Explain requirements validation techniques. Justify why should validate? (10 Marks)

a. Discuss Components Based Software Engineering process in detail (10 Marks)

Write short notes on:

- i) Ethnography
- ii) Use case
- iii) Sequence diagram
- iv) Feasibility study
- v) Requirement change management

(10 Marks)

Module-3

Define Architectural Design. Discuss the importance of Behavioral model with example.

(10 Marks) (05 Marks)

b. Draw a Data flow diagram for the Banking Transaction System and explain.

Discuss the importance and role of software architecture.

(05 Marks)

O OR

a. Explain different architecture styles for components and connectors view.

(10 Marks)

b. Discuss the methods of documenting architectural design with example.

(10 Marks)

Module-4

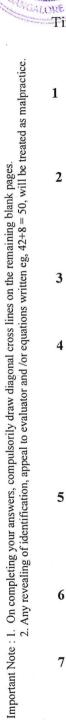
7 a. Briefly explain the relationship between Function Oriented Design and Detailed design. (05 Marks)

b. Demonstrate how you can use complexity matrix for function oriented design that is easy to (05 Marks)

c. Define coupling and Cohesion. Explain in detail types of coupling and justify which coupling is good. (10 Marks)

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		OR			
3	a.	Explain in detail about different architectural patterns of distributed system.	(10 Marks)		
	b.	Describe in detail about software as a service in the distributed Software Engineer			
		Cycles Control Control Control	(10 Marks)		
		Module-5			
a. Describe in detail about constructive cost model for effort estimation of planning					
		project development	(10 Marks)		
	b.	Discuss in detail about project scheduling and staffing with example.	(10 Marks)		
		OR			
0	a.	Explain the steps involved in the risk management process in detail.	(10 Marks)		
	b.	Write about White Box Testing Technique with suitable example.	(10 Marks)		
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OR		
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