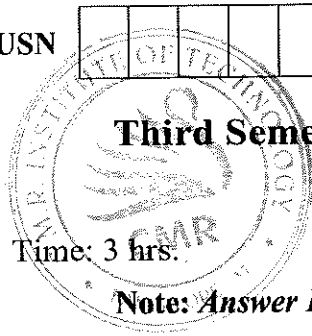


# CBCS SCHEME

16/17MCA34

USN

--	--	--	--	--	--	--	--	--	--



## Third Semester MCA Degree Examination, Dec.2019/Jan.2020 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? Explain the different attributes of good software. (08 Marks)
- b. With sketch, explain water fall process model. Mention the advantages and disadvantages of waterfall model. (08 Marks)

OR

- 2 a. Illustrate how spiral model is different from other process models. Explain the same with diagram. (08 Marks)
- b. Describe incremental model with advantages and disadvantages. (08 Marks)

### Module-2

- 3 a. Explain the need for requirements elicitation and analysis. (08 Marks)
- b. Compare and contrast between functional and non-functional requirements. (08 Marks)

OR

- 4 a. Describe requirements engineering process briefly. (08 Marks)
- b. Write short notes on component based software engineering process. (08 Marks)

### Module-3

- 5 a. Define system modeling. Explain each UML diagram, with a diagram used to represent the essentials of a system. (08 Marks)
- b. Explain briefly model driven engineering process. (08 Marks)

OR

- 6 a. Describe the role of software architecture in software developments. (08 Marks)
- b. Write short notes on architectural styles for component and connector view. (08 Marks)

### Module-4

- 7 a. Explain briefly function oriented design in software development. (08 Marks)
- b. Describe the issues of distributed system. (08 Marks)

OR

- 8 a. Explain briefly client server computing. Discuss its advantages and disadvantages. (08 Marks)
- b. Write short notes on software as a service? (08 Marks)

### Module-5

- 9 a. Explain briefly project scheduling and staffing. (08 Marks)
- b. Explain the activities of project monitoring plan. (08 Marks)

OR

- 10 a. Explain briefly software testing process. (08 Marks)
- b. Compare and contrast between black box testing and white box testing. (08 Marks)

\* \* \* \* \*

18 DEC 2019

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