

CBCS SCHEME

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16/17MCA34

Third Semester MCA Degree Examination, Aug./Sept. 2020 Software Engineering

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain the attributes of good software. (08 Marks)
b. Give a brief description of a software engineering diversity. (08 Marks)

OR

- 2 a. With a neat diagram, briefly explain waterfall model. (08 Marks)
b. Explain extreme programming with a neat diagram. (08 Marks)

Module-2

- 3 a. Briefly discuss the functional and non – functional requirement. (08 Marks)
b. With a neat diagram, explain requirements elicitation and analysis process. (08 Marks)

OR

- 4 a. Explain the basic elements of a component model. (08 Marks)
b. Explain the process of CBSE. (08 Marks)

Module-3

- 5 a. Explain system model with suitable examples. (10 Marks)
b. Define use case diagram. Briefly explain the use case diagram to view patient information. Illustrate the diagram basic notations. (06 Marks)

OR

- 6 a. Discuss the important of behavioral model. (08 Marks)
b. Explain the repository architecture and client server architecture. (08 Marks)

Module-4

- 7 a. Define cohesion. Explain the types of cohesion techniques. (08 Marks)
b. With a neat diagram, explain data flow diagram of an ATM. (08 Marks)

OR

- 8 a. Explain some important design issues that need to be considered in distributed system engineering. (06 Marks)
b. Explain the architectural pattern for distributed systems with a neat diagram. (10 Marks)

Module-5

- 9 a. Discuss project scheduling and staffing. (08 Marks)
b. Explain the concept of risk assessment and mention the techniques for managing them. (08 Marks)

OR

- 10 a. What do you mean by testing? Briefly explain the different levels of testing. (08 Marks)
b. Explain any two black box testing technique with example. (08 Marks)

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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.