

CBCS SCHEME

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First Semester MCA Degree Examination, June/July 2019 Software Engineering

Max. Marks: 100

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

Module-1

- 1 a. What is software engineering? Explain various diversities in software engineering. (10 Marks)
- b. Explain the professional responsibilities of a software engineer. (05 Marks)
- c. List and explain the attributes of good software. (05 Marks)

OR

- 2 a. Explain waterfall and incremental software process models with a neat diagram. (10 Marks)
- b. Explain extreme programming practices. (10 Marks)

Module-2

- 3 a. Describe requirement engineering process with neat diagram. (10 Marks)
- b. Explain notations used for writing system requirements specification. (10 Marks)

OR

- 4 a. Define component. Describe CBSE process with neat diagram. (10 Marks)
- b. Explain the characteristics of a component. (10 Marks)

Module-3

- 5 a. Describe the interaction model in detail with suitable example. (10 Marks)
- b. Briefly explain the three architecture views. (10 Marks)

OR

- 6 a. Explain system models with suitable example. (10 Marks)
- b. Describe the component and connector view architecture styles in detail. (10 Marks)

Module-4

- 7 a. Describe coupling and cohesion design concepts. (10 Marks)
- b. Explain briefly function oriented design. (10 Marks)

OR

- 8 a. Explain the design issues to be considered in distributed system. (10 Marks)
- b. Explain the following architecture patterns i) Client – server architecture ii) Peer – to peer architecture. (10 Marks)

Module-5

- 9 a. Explain project scheduling and staffing. (10 Marks)
- b. Describe risk management process with neat diagram. (10 Marks)

OR

- 10 a. Write the differences between black box and white box testing. (10 Marks)
- b. What is risk management? Briefly explain the risk management activities. (10 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.