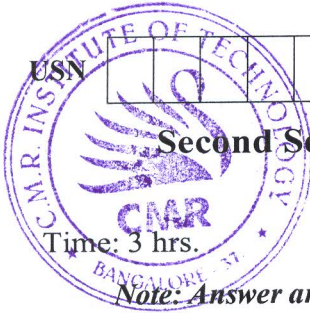


CBCS SCHEME



20MCA24

Second Semester MCA Degree Examination, June/July 2023 Software Engineering

Max. Marks: 100

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

Module-1

- 1 a. Compare between Generic Products and Customized Products. (02 Marks)
- b. Explain IEEE standards of software engineering code of ethics and professional practice. (08 Marks)
- c. With a neat diagram, explain waterfall model. Discuss advantages and disadvantages of the same. (10 Marks)

OR

- 2 a. Explain the principles of Agile method. (05 Marks)
- b. Differentiate between plan driven and agile method. (05 Marks)
- c. With a neat diagram, explain the scrum process. Discuss the advantages of the same. (10 Marks)

Module-2

- 3 a. Explain non-functional requirements along with a neat diagram. (10 Marks)
- b. Explain the structure of software requirement document. (10 Marks)

OR

- 4 a. With a neat diagram, explain requirement elicitation and analysis. (10 Marks)
- b. Explain ethnography with a diagram. (10 Marks)

Module-3

- 5 a. Explain object oriented themes. (06 Marks)
- b. Explain the purposes served by models. (04 Marks)
- c. Define Association. Explain the elements that can be associated [shown] at the end of an association. (10 Marks)

OR

- 6 a. Differentiate between association, aggregation and composition. (10 Marks)
- b. What is multiple inheritance? Explain the situations when we come across multiple inheritance. (10 Marks)

Module-4

- 7 a. Explain state diagram behaviour in detail. (10 Marks)
- b. Explain the components of activity model. (10 Marks)

OR

- 8 a. Along with a diagram, explain different types of concurrency. (10 Marks)
- b. Explain different use case relationships. (10 Marks)

Module-5

- 9 a. Explain briefly top-down estimation and bottom-up approach in estimation. (10 Marks)
- b. What is coupling? Explain different types of coupling. (10 Marks)

OR

- 10 a. Define Risk. Explain top five risks and techniques to manage those risks. (10 Marks)
- b. Explain project scheduling and staffing. (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.

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