

CBCS SCHEME

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15CS42

Fourth Semester B.E. 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. What are the attributes of good software? (04 Marks)
b. Construct and explain the water fall model of software development process. (05 Marks)
c. Write a note on requirement elicitation and analysis. (07 Marks)

OR

- 2 a. What are the professional and ethical responsibility of software engineering. (04 Marks)
b. Explain insulin pump system by constructing its activity model. (06 Marks)
c. Briefly describe the different types of non-functional requirements. (06 Marks)

Module-2

- 3 a. List out the different types of UML diagrams. And explain process model of involuntary detention in MHC-PMS by constructing activity diagram. (08 Marks)
b. Determine the state diagram for the weather station system. Explain how it responds to request for various services. (08 Marks)

OR

- 4 a. What are the different implementation issues in software Engineering? (08 Marks)
b. Construct the class diagram for MHC-PMS which represents classes and association between the classes. Also explain the generalization and aggregation techniques. (08 Marks)

Module-3

- 5 a. What are the different types of interfaces between program components and interface errors? (08 Marks)
b. Analyze the benefits of reengineering over replacement. With a block diagram describe the activities in the reengineering process. (08 Marks)

OR

- 6 a. List the advantages of software inspection over testing and show that how inspection and testing supports in validation and verification of the software process. (08 Marks)
b. Describe the factors used in environment assessment and application assessment. (06 Marks)
c. Construct the block diagram of the software evolution process. (02 Marks)

Module-4

- 7 a. What are the factors affecting software pricing. (03 Marks)
b. Construct and explain the UML activity diagram for the project planning. (05 Marks)
c. With necessary diagram, describe the phaser of software review process. (08 Marks)

OR

- 8 a. Illustrate how Agile planning is applied in "planning in XP" (08 Marks)
b. Write a note on inspection checklist. (05 Marks)
c. Listout the software quality attributes. (03 Marks)

Module-5

- 9 a. Explain Boehm's spiral model. (08 Marks)
b. Summarize the practices involved in extreme programming. (08 Marks)

OR

- 10 a. Describe how SCRUM process helps in Agile project management. (08 Marks)
b. List and explain the phases of Rational Unified process (RUP) (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.