

CBCS SCHEME

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18CS35

Third Semester B.E. Degree Examination, July/August 2021 Software Engineering

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. What is software engineering? Explain its key challenges facing. (06 Marks)
b. Explain the software process activities. (06 Marks)
c. Explain software increment process model for software development. (08 Marks)
- 2 a. Mention and explain important categories of software products. (04 Marks)
b. Discuss essential attributes of good software. (06 Marks)
c. Explain the water fall process model and discuss the problem with water fall process model. (10 Marks)
- 3 a. What is object orientation? Explain the concepts of object orientation. (10 Marks)
b. What is Object Oriented Development (OOD) and Object Oriented Modeling (OOM)? (10 Marks)
- 4 a. Explain the OOM – class, state and interaction models in detail. (10 Marks)
b. Mention Object Orientation (OO) themes. (04 Marks)
c. Explain the three models describe a system in OOM/OOD. (06 Marks)
- 5 a. What is system modeling? Mention its advantages. (04 Marks)
b. Mention the various UML diagrams used in system modeling. (06 Marks)
c. Draw Classes/Associations in the MHC-PMS. (10 Marks)
- 6 a. Explain what is generalization is system modeling. (04 Marks)
b. Draw the generalization hierarchy for Doctor, Hospital doctor and general practioner. (06 Marks)
c. Draw state diagram of a microwave oven. (10 Marks)
- 7 a. Mention the important program testing goals. (06 Marks)
b. Explain the I/O model of program testing. (06 Marks)
c. Explain the software testing process. (08 Marks)
- 8 a. What is inspections and testing? Explain. (06 Marks)
b. Explain the stages of testing. (08 Marks)
c. Explain testing strategies-partitions (equivalence). (06 Marks)
- 9 a. What is project planning? Mention the project planning stages. (04 Marks)
b. What is plan-driven development and mention its – pros and cons? (06 Marks)
c. What is project planning process? Explain with diagram in detail. (10 Marks)
- 10 a. What is software pricing? Mention the factors affecting software pricing. (04 Marks)
b. Explain the project scheduling process. (10 Marks)
c. What is project scheduling and its activities. Also explain the milestones and deliverable in project scheduling. (06 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.