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18CS35

Third Semester B.E. Degree Examination, June/July 2024 Software Engineering

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. What is Software Engineering? Explain the waterfall model approach to develop a software product with a neat diagram. (10 Marks)
- b. Explain Insulin pump control system with a neat diagram. (10 Marks)

OR

- 2 a. Explain Requirement Engineering process with a neat diagram. (10 Marks)
- b. In connection with requirements analysis and elicitation, explain the following:
i) Scenario ii) Interviewing (10 Marks)

Module-2

- 3 a. What is object orientation? Explain the four aspects or characteristics required by an object oriented approach. (10 Marks)
- b. What is an object oriented development? Explain object oriented themes. (10 Marks)

OR

- 4 a. Explain the following:
i) Link
ii) Association
iii) Multiplicity
iv) Ordering (10 Marks)
- b. Explain association classes and qualified associations with an example for each. (10 Marks)

Module-3

- 5 a. What are structural models? In connection with structural models, explain the following:
i) Generalization ii) Aggregation (10 Marks)
- b. What is Event-Driven modeling? Explain the state diagram of a microwave oven. (10 Marks)

OR

- 6 a. Explain the Rational Unified process, with a neat diagram. (10 Marks)
- b. What are Design Models? Explain weather station state diagram. (10 Marks)

Module-4

- 7 a. What is Software Testing? Explain Test Driven Development with a neat diagram. (10 Marks)
- b. What is Acceptance Testing? Explain Acceptance Testing process with a neat diagram. (10 Marks)

OR

- 8 a. What is Software Evolution? Explain software evolution process with a neat diagram. (10 Marks)
- b. What is Software Re-Engineering? Explain software evolution process with a neat diagram. (10 Marks)

Module-5

- 9 a. What is Project Planning? Explain the project planning process with a neat diagram. (10 Marks)
- b. Explain the following:
- i) Project scheduling
 - ii) Estimation techniques
- (10 Marks)

OR

- 10 a. What is Software Quality? With a neat diagram, explain process based approach to achieve product quality. (10 Marks)
- b. What is Software Review? Explain the software Review process with a neat diagram. (10 Marks)

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