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Third Semester B.E. Degree Examination, Dec.2024/Jan.2025 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 software engineering code of Ethics. (10 Marks)
b. With a neat diagram, explain the waterfall model of software development process. (10 Marks)

OR

- 2 a. With a neat block diagram, explain the spiral processing model. (10 Marks)
b. What are attributes of good software? Explain the key challenges facing software engineering. (10 Marks)

Module-2

- 3 a. Explain in brief links, association, ordering bags and sequences with an example each. (10 Marks)
b. Explain following important terms with example :
i) Identify
ii) Classification
iii) Inheritance
iv) Polymorphism. (10 Marks)

OR

- 4 a. Explain generalization and inheritance with an example each. (10 Marks)
b. Explain in brief class model, state model, and interaction model with an example each. (10 Marks)

Module-3

- 5 a. What is system modelling? Explain the different perspective that the system model developed. (10 Marks)
b. Explain model driven engineering in details and mention advantages and disadvantages. (10 Marks)

OR

- 6 a. With a neat diagram, explain context model with an example. (10 Marks)
b. Explain event-driven model with a state diagram of microwave over application. (10 Marks)

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.

Module-4

- 7 a. What is test driven development? With a neat diagram, explain test driven development process. (10 Marks)
b. With appropriate block diagram, explain the system evolution process. (10 Marks)

OR

- 8 a. Write and explain Lehman's laws related to system changes. (10 Marks)
b. Explain reengineering process with a neat block diagram. (10 Marks)

Module-5

- 9 a. With a neat diagram, explain project scheduling process. (10 Marks)
b. List and explain factors affecting software pricing. (10 Marks)

OR

- 10 a. Discuss in detail the different stages in component measurement process with diagram. (10 Marks)
b. Explain plan driven development with a neat block diagram. (10 Marks)

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