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18CS35

Third Semester B.E. Degree Examination, Aug./Sept.2020 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. Define Software Engineering. Bring out the differences between generic and bespoke software. List Software Engineering attributes. (10 Marks)
- b. Explain Incremental Development process model with a neat block diagram. List its benefits and problems. (10 Marks)

OR

- 2 a. Illustrate Requirement Engineering process with a neat block diagram. (10 Marks)
- b. Explain the IEEE standard requirement document with its structure. (10 Marks)

Module-2

- 3 a. Define object orientation, list and explain the aspects of object oriented approach. (10 Marks)
- b. List and explain the object oriented theories which supports object oriented technology. (10 Marks)

OR

- 4 a. Briefly explain Links, Associations, Ordering, Bags and Sequences with an example each. (10 Marks)
- b. Explain Generalization and Inheritance with an example each. (10 Marks)

Module-3

- 5 a. What is system modeling? Explain the different perspective that the system model developed. (10 Marks)
- b. Illustrate sequence diagram with an example to view patient information. (10 Marks)

OR

- 6 a. Explain Event-driven model with a state diagram of microwave oven application. (10 Marks)
- b. Define design patterns. Briefly explain the essential elements of design patterns. (10 Marks)

Module-4

- 7 a. Discuss Test Driven Development (TDD) with its process and list its benefits. (10 Marks)
- b. Explain software evolution process with neat block diagram. (10 Marks)

OR

- 8 a. Discuss Lehuran's laws of program evolution dynamics. (10 Marks)
- b. Explain Reengineering process with a neat block diagram. (10 Marks)

Module-5

- 9 a. Discuss project plan. Explain the various section of project plan. (10 Marks)
- b. With a neat diagram explain project scheduling process. (10 Marks)

OR

- 10 a. Discuss software quality and its attributes. Explain process based quality. (10 Marks)
- b. Explain software reviews and inspections of Quality Assurance. (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.