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18CS35

Software Engineering

Time: 3 hrs. Max. Marks: 100

Third Semester B.E. Degree Examination, Dec.2019/Jan.2020

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. (08 Marks)
 - b. What are attributes of good software? Explain the key challenges facing Software Engineering. (08 Marks)
 - c. Define (i) Feasibility Study (ii) Function
 - (ii) Functional Requirements
 - (iii) Non Functional Requirements (iv) Domain Requirements. (04 Marks)

OR

- 2 a. With a neat block diagram, explain the Spiral Process Model. (08 Marks)
 - b. Explain Requirement Elicitation and Analysis Process. (08 Marks)
 - c. What are the fundamental activities of Software Engineering? (04 Marks)

Module-2

- 3 a. Explain following important terms with example:
 - (i) Identity (ii) Classification (iii) Inheritance (iv) Polymorphism. (10 Marks)
 - b. Define the purpose of the following terms with suitable example and UML notation with respect to class model
 - (i) Multiplicity (ii) Association class

(10 Marks)

OR

- 4 a. Explain in brief Class Model, State Model and Interaction model. (10 Marks)
 - b. What is Object Oriented Development? Explain different stages of Object Oriented Development.
 (10 Marks)

Module-3

- 5 a. Explain open source development in detail. (10 Marks)
 - b. Explain Model driven engineering in detail and mention Pros and Cons of it. (10 Marks)

OR

- 6 a. With a neat diagram explain context model, with an example. (08 Marks)
 - b. Explain the phases of Rational Unified Process Model. (08 Marks)
 - c. What is executable UML? Enlist features of executable UML. (04 Marks)

Module-4

- 7 a. With appropriate block diagram, explain the system evolution process. (08 Marks)
 - b. Describe the three types of Software maintenance. Why is it sometimes difficult to distinguish between them? (08 Marks)
 - c. Mention the advantages of Test Driven Development. (04 Marks)

1 of 2

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