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15CS42

Fourth Semester B.E. Degree Examination, July/August 2022 Software Engineering

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Explain with a neat block diagram, the Incremental Software development model. Point out its benefits compare to the Waterfall model. (07 Marks)
- b. Define Software Engineering. Point out and explain the essential attributes of a good software. (05 Marks)
- c. Point and explain the three general issues that affect the different types of software. (04 Marks)

OR

- 2 a. Point out and explain the various metrics for specifying non – functional requirements. (05 Marks)
- b. Explain the requirements elicitation and analysis process with a diagram. (07 Marks)
- c. Draw an use case diagram for the MHC = PMS. (04 Marks)

Module-2

- 3 a. Draw a sequence diagram for transfer of data in MHC – PMS. (04 Marks)
- b. Explain Data driven and Event driven behavioural models with example. (08 Marks)
- c. Explain briefly Model – driven Engineering. (04 Marks)

OR

- 4 a. Explain Rational unified process, with a diagram. (07 Marks)
- b. Explain the Software System implementation issues in Software Engineering. (09 Marks)

Module-3

- 5 a. Point three advantages of Software Inspection over Software testing. (04 Marks)
- b. Explain Component testing. (06 Marks)
- c. Explain System testing in Software testing. (06 Marks)

OR

- 6 a. Explain the Software Evolution process in Software Evolution. (06 Marks)
- b. Explain the Legacy System Management in Software Evolution. (04 Marks)
- c. Explain the process of Maintenance prediction in software maintenance. (06 Marks)

Module-4

- 7 a. What are the factors that effect Software pricing? (05 Marks)
- b. Explain COCOMO – 11 model Software Estimation technique. (07 Marks)
- c. Explain the Project Scheduling process. (04 Marks)

OR

- 8 a. Point out the Software Quality Attributes. (06 Marks)
- b. Explain the Software Review process with a block diagram. (10 Marks)

Module-5

- 9 a. Point out and explain the various Principles of Agile method. (05 Marks)
b. Explain Extreme Programming release cycle in Agile Software model and practices. (11 Marks)

OR

- 10 a. Explain Scrum process Agile Project Management. (08 Marks)
b. Explain Agile Scaling method. (08 Marks)
