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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)

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