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10IS51

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

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting at least TWO full questions from each part.

PART – A

- 1 a. What are attributes of a good software? (05 Marks)
b. What are professional and ethical responsibilities of software engineering? (05 Marks)
c. Differentiate between technical computer based systems and socio-technical systems. (05 Marks)
d. Define legacy systems. Explain layered model at legacy systems. (05 Marks)
- 2 a. What are various types of critical systems? Explain with an example and neat diagram. (10 Marks)
b. With a neat sketch, explain spiral model of software development process. Give its advantages. (10 Marks)
- 3 a. Explain non-functional requirements giving examples for each types. (08 Marks)
b. Write structure of standard requirement document. (04 Marks)
c. What is ethnography? How ethnography is effective in discovering requirements? (08 Marks)
- 4 a. Write state chart for microwave oven model? Indicate possible states and their description. (10 Marks)
b. Explain software project management activities. (10 Marks)

PART – B

- 5 a. What is the need of architecture design decision? List out different models that can be developed. (08 Marks)
b. Describe the concept of client server model with a neat diagram. (06 Marks)
c. List system structuring styles and explain repository model with a block diagram. (06 Marks)
- 6 a. Explain principles of agile methods. (08 Marks)
b. Briefly discuss extreme programming release cycle with neat diagram. (05 Marks)
c. How software maintenance is carried out? Explain briefly. (07 Marks)
- 7 a. Differentiate between verification and validation. (05 Marks)
b. Explain the concept of clean room software development. (05 Marks)
c. Explain performance testing. (05 Marks)
d. With a neat diagram, explain inspection process. (05 Marks)
- 8 a. Write short note on P-CMM. (05 Marks)
b. How is COCOMO model used to estimate the cost of software? (10 Marks)
c. Write short note on project staffing. (05 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.