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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.