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Fifth Semester B.E. Degree Examination, June 2012
Software Engineering

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1
 - a. Explain the types of software process model. (05 Marks)
 - b. What are professional and ethical responsibility of software engineering? (05 Marks)
 - c. Differentiate between technical computer based system and socio–technical system. (05 Marks)
 - d. With a relevant figure, bring out different disparities involved in software engineering. (05 Marks)
- 2
 - a. Explain the concept of safety and security in system. (08 Marks)
 - b. Bring out the different factors of system dependability. (06 Marks)
 - c. Explain the software specification, with neat diagram. (06 Marks)
- 3
 - a. Briefly list out eh non–functional requirements of software system. (10 Marks)
 - b. Explain the requirement engineering process, with relevant figures. (10 Marks)
- 4
 - a. Explain the different system models which can be created during analysis process. (10 Marks)
 - b. Explain the management activities of a software manager. (10 Marks)

PART – B

- 5
 - a. What is need of architectural 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. Explain the centralized control model. (06 Marks)
- 6
 - a. Explain the principles of agile methods. (08 Marks)
 - b. Explain the different types of software maintenance. (06 Marks)
 - c. Explain the software evolution process. (06 Marks)
- 7
 - a. With a neat diagram, explain the inspection process. (08 Marks)
 - b. Explain the stages involved in automatic static analysis. (06 Marks)
 - c. Explain the performance testing. (06 Marks)
- 8
 - a. Describe the four factors of people management. (05 Marks)
 - b. Explain the Maslow concept of motivating people (05 Marks)
 - c. Describe the cost estimation techniques, with relevant example. (10 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.