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06IS51

**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.