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Fifth Semester B.E. Degree Examination, June/July 2014
Software Engineering

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Define software process and software process model. Discuss these two in brief. (08 Marks)
 b. Mention and explain the attributes of good software. (04 Marks)
 c. What are legacy systems? Explain the same with its system components and neat sketches. (08 Marks)
- 2 a. What is system dependability? Explain the principal dimensions and system properties of dependability. (09 Marks)
 b. Explain the component based software engineering with its generic process model. (06 Marks)
 c. Discuss the functional classifications of CASE tools. (05 Marks)
- 3 a. What are functional and non-functional requirements? Discuss the non-functional requirements, in detail. (10 Marks)
 b. Discuss the requirements elicitation and analysis with a good process model. (10 Marks)
- 4 a. How does the structured methods are helpful to produce the models for a system? Discuss the components of CASE tools for structured method support. (10 Marks)
 b. Explain the process of risk management with necessary sketches. Discuss any one of its stage of risk management, in detail. (10 Marks)

PART – B

- 5 a. Mention and explain the main strategies that can be used to decompose a subsystem into models. (10 Marks)
 b. What are the concurrent objects? Discuss the concurrent object implementations. (06 Marks)
 c. Mention and define two types of design models of object oriented design. (04 Marks)
- 6 a. What is extreme programming (XP)? Explain a number of practices involving in extreme programming (XP). (10 Marks)
 b. List out and explain the Lehman's laws of program evolution dynamics. (10 Marks)
- 7 a. Brief out the following :
 i) Integrity testing
 ii) Release testing. (04 Marks)
 b. What is intention of automatic static analysis? Discuss the following, in detail :
 i) Checks detected by static analysis
 ii) Stages involved in static analysis. (10 Marks)
 c. Define component testing. Mention and explain different types of interface errors in interface testing. (06 Marks)
- 8 Write short notes on :
 a. Motivating people-human needs hierarchy. (06 Marks)
 b. Software cost estimation techniques. (08 Marks)
 c. Agile methods. (06 Marks)

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