USN | | | | | | | | | | 10IS51

Fifth Semester B.E. Degree Examination, Dec. 2013/Jan. 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, software engineering, software process.   (06 Marks)
   b. What are attributes of good software?   (08 Marks)
   c. Explain two types of emergent properties.   (06 Marks)

2 a. Explain system dependability.   (10 Marks)
   b. Explain the process iteration.   (10 Marks)

3 a. Give software requirement document (IEEE standard).   (10 Marks)
   b. Explain requirement validation.   (10 Marks)

4 a. Explain structured methods.   (10 Marks)
   b. Explain risk management.   (10 Marks)

PART – B

5 a. Explain system organization.   (10 Marks)
   b. Give state diagram for weather station and explain design evaluation. (10 Marks)

6 a. Explain extreme programming.   (10 Marks)
   b. Give Lehman's laws.   (10 Marks)

7 a. Explain clean room software development.   (10 Marks)
   b. Explain component testing.   (10 Marks)

8 a. Give factors governing staff selection.   (10 Marks)
   b. Name factors affecting software engineering productivity and cost estimation techniques.
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