

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. (10 Marks)

\*\*\*\*\*

Important Note : On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Do not reveal the identity of the evaluator and/or equations written eg. 42+8 = 50, will be treated as malpractice.

Highly confidential document EDCG 192, @ 12/10/2013 1:05:49 PM