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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Sixth Semester, B.E. - Computer Science and Engineering

Semester End Examination; June/July - 2015

Software Engineering

Time: 3 hrs

Max. Marks: 100

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

PART - A

- 1 a. Define software Process. Briefly Explain three fundamental Process activities. 5
- b. Briefly explain the essential characteristics of good software with respect to software attribute. 8
- c. Define CASE. Explain any Two fundamental types of Software Product. 7
- 2 a. What are Critical Systems? Explain in brief dimensions of dependability with a neat sketch. 10
- b. With a neat figure explain the processing activity of a Spiral model. 10
- 3 a. Explain different types of Non-functional requirement. 6
- b. With a neat sketch justify your answer how feasibility study marks its significance in requirement engineering process. 10
- c. Explain use case for library system in detail with necessary sketch. 4
- 4 a. Explain any Two types of Behavioral model. Also Explain with a neat diagram the operation of an insulin pump with respect to either of any model. 10
- b. Define Risk analysis. Explain in brief the iterative process of Risk analysis. 10

PART - B

- 5 a. Explain in brief the merits and demerits of shared Repository. 10
- b. Discuss the concept of object oriented design Process with necessary diagram. 10
- 6 a. Briefly explain the Principles of Agile Methodology. 10
- b. What is fault tolerance? Explain any few aspects of fault tolerance. 10
- 7 a. Define the terms verification and validation. Also Explain the process of debugging. 10
- b. What is interface testing? Figure out and brief different types of interface errors. 10
- 8 a. With an illusion for each explain any Two factors that influence group working. 10
- b. Explain different cost estimation techniques. 10

