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P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
First Semester, M. Tech - Computer Science and Engineering (MCSE)
Semester End Examination; Jan/Feb - 2016
Agile Technologies

Time: 3 hrs

Max. Marks: 100

Note: Answer FIVE full questions, selecting ONE full question from each unit.

UNIT - I

- 1 a. What are the four values identified in the Agile Alliance Manifesto? Discuss the Agile principles in brief. 12
- b. Explain Risk Driven and Client Driven iterative planning. 8
- 2 a. Discuss evolutionary requirements Analysis. Why it is misunderstanding to equate evolutionary requirement analysis with “no early requirements. 10
- b. What is Incremental and Evolutionary delivery? Discuss with suitable diagrams. 10

UNIT - II

- 3 a. Briefly discuss the Agile project management and list out the nine principles of the Agile Project manager. 10
- b. Discuss the six practices recommended by Augustine and wood cock. Why scrum and XP includes Agile project management separately. 10
- 4 a. Discuss the Empirical Versus defined and perspective process. 6
- b. Explain the following specific Agile methods : 14
- (i) Scrum (ii) XP (iii) crystal methods (iv) Agile modeling

UNIT - III

- 5 a. Explain the key motivations for iterative development. 10
- b. What are the problems with water fall method? 10
- 6 a. Explain the work products, roles and practices of scrum methodology. 10
- b. List the scrum values. How to fail with scrum? 10

UNIT - IV

- 7 a. Explain the life cycle for extreme programming. 10
- b. Explain the core practices of extreme programming. 10
- 8 a. Explain UP process. Distinguish between UP versus RUP. 12
- b. Explain the common mistakes and misunderstanding of EVO. 8

UNIT - V

- 9 a. Explain the following core practices of EVO : 10
- (i) Requirement practices (ii) Project management practices.
- b. What are the steps involved in Agile Technology Testing explain its manifesto. 10
- 10 a. Mention and explain the nine principles of Agile testing practice. 10
- b. What are the six concrete practices for Testing on Agile team? 10