U.S.N

P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
Third Semester, Master of Computer Applications (MCA)
Make-up Examination; Jan / Feb - 2017
Software Engineering

Time: 3 hrs   *Max. Marks: 100*

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

UNIT - I

1 a.	Explain with the figure, generic activities involved in software process.	10
b.	Explain various key challenges facing software engineer's and also explain professional and ethical responsibility.	10
2 a.	What is RUP? Explain with the figure different phases in RUP.	10
b.	What is extreme programming? Explain the practices of extreme programming.	10

UNIT - II

3 a.	What is Requirement document? Explain its structure.	10
b.	Explain different categories of Requirement. In detail explain functional and non-functional requirement.	10
4 a.	With the figure, explain requirement elicitation and analysis process.	10
b.	Elaborate on different dimensions of dependability. Give its assurances.	10

UNIT - III

5 a.	Explain with an example, interaction model.	10
b.	With an example, explain Behavioral model.	10
6 a.	Explain different patterns used in architectural design decisions.	10
b.	Explain different stages in object oriented design using UML.	10

UNIT - IV

7 a.	With the figure, explain basic elements of component model. Also explain the characteristics of component.	10
b.	What are the different architectural patterns available for distributed system? Explain with the figure, peer to peer architecture.	10
8 a.	Explain in detail Risk management process.	10
b.	Explain different factors influencing team work and managing people.	10

UNIT - V

9 a.	Explain different section's involved in project plan and also explain project planning process.	10
b.	Explain with the figure project scheduling process.	10
10 a.	Explain different estimation techniques. In detail explain algorithmic cost modelling.	10
b.	Explain the following : i) Component testing ii) User testing.	10

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