P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi) Third Semester, Master of Computer Applications (MCA) Semester End Examination; Dec - 2017/Jan - 2018		
Т	ime: 3 hrs Max. Marks: 100	
Note: Answer FIVE full questions, selecting ONE full question from each unit.		
UNIT - I		
1 a.	Briefly discuss the essential attributes of a good software.	5
b.	List and briefly describe phases of waterfall model.	5
c.	Explain the principles of agile methods.	10
2 a.	What is RUP? With a neat figure, explain different phases of RUP.	10
b.	Discuss the problems with agile methods and also discuss the practices of agile method.	10
	UNIT - II	
3 a.	Explain the structure of a requirement document.	10
b.	Explain the principal properties of dependability.	10
4 a.	List and explain the generic activities of requirement engineering processes.	10
b.	List and explain the terms of safety.	10
UNIT - III		
5 a.	Explain different types of UML diagrams.	5
b.	Briefly describe the advantages of architectural design.	5
c.	Explain the issues in implementation of software.	10
6 a.	Discuss state-machine-model with an example.	10
b.	Explain with an example interaction model.	10
UNIT - IV		
7 a.	List and explain the essentials of Component Based Software Engineering (CBSE).	10
b.	Explain the design issues of distributed systems.	10
8 a.	Explain risk management process.	10
b.	Explain different factors influencing team work and managing people.	10
UNIT - V		
	With a neat diagram, explain the project scheduling process.	10
b.	Explain different stages of project planning process.	10
10 a.	Explain estimation techniques.	10
b.	Discuss system testing.	10