

--	--	--	--	--	--	--	--	--	--



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. - 2019

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 the attributes of good software and the key challenges facing the software engineers. 10
- b. Discuss with a neat diagram software process activities. 10
- 2 a. Summarize the principle of Agile method. 10
- b. Explain different phases of RUP and also good practices followed by RUP. 10

UNIT - II

- 3 a. Explain the functional and non-functional requirements. 10
- b. Describe IEEE structure for the creation of requirement document. 10
- 4 a. What is requirement elicitation and analysis? Discuss different stages involved in it. 10
- b. Explain different principle properties of dependability. 10

UNIT - III

- 5 a. Demonstrate with an example context model. 10
- b. Explain behavioral model with an example each. 10
- 6 a. Discuss different architectural models used in architectural design. 10
- b. Elaborate an object oriented design stages using UML. 10

UNIT - IV

- 7 a. List and explain characteristics and elements of component model. 10
- b. Discuss on different patterns in distributed system. 10
- 8 a. Explain various project management activities involved in software project management. 10
- b. Explain with a neat diagram risk Management process. 10

UNIT - V

- 9 a. Summarize with suitable diagram project planning process. 10
- b. Illustrate different types of cost estimation techniques. 10
- 10 a. Illustrate with a neat diagram project scheduling process. 10
- b. Summarize on interface testing and acceptance testing. 10

* * *