U.S.N					



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

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Information Science and Engineering Semester End Examination; May/June - 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.	What is meant by Software Engineering? Explain the software process activities.	7
b.	Mention and explain the attributes of good software.	7
c.	State and explain the key challenge of a Software Engineering	6
2 a.	Describe software development life cycle with merits and demerits.	10
b.	List out and explain the complete structure of SRS or Software Requirement document.	10
	UNIT - II	
3 a.	Define architectural design. Briefly explain system structuring with an example.	10
b.	Describe repository model with merits and demerits.	10
4 a.	List out and explain the different stages involved in an object oriented design process.	10
b.	Design a state diagram for weather station and explain.	10
	UNIT - III	
5 a.	Mention and explain the four dimentions of dependability.	6
b.	List out and explain the terms of Reliability terminology.	7
c.	Explain Reliability metrics.	7
6 a.	Compare verification and validation. Explain the verification and validation planning.	10
b.	Briefly explain the software inspection process.	10
	UNIT - IV	
7 a.	What is meant by motivation? Briefly explain the role of project managers in motivating people.	10
b.	Describe the people capability maturity model.	10
8 a.	Explain the factors effecting software pricing.	10
b.	Briefly explain COCOMO model.	10
	UNIT - V	
9 a.	Explain architectural evaluation process.	10
b.	What is meant by software maintanance? Briefly explain obout maintanance protection.	10
10 a.	Briefly explain the re-engineering process.	10
h	Define program modularization. Explain in detail program modularization	10