U.S.N ☐☐☐☐☐☐☐☐☐☐

P.E.S. College of Engineering, Mandya - 571 401
(An Autonomous Institution affiliated to VTU, Belgaum)
Sixth Semester, B.E. – Computer Science and Engineering
Semester End Examination; June - 2016
Software Engineering

Time: 3 hrs   *Max. Marks: 100*

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

UNIT - I

1 a.	Describe the two fundamental types of software product. Give example for each.	6
b.	Explain the attributes of good software.	4
c.	Describe the professional and ethical responsibility of a software engineer. List the code of ethics of software engineers.	10
2 a.	Explain the different dimensions of dependability.	10
b.	Explain evolutionary development. List its advantages and disadvantages.	10

UNIT - II

3 a.	Explain the structure of a requirements document as per IEEE standards.	10
b.	Differentiate between enduring and volatile requirements. List the different types of volatile requirements.	10
4 a.	List and explain the different types of non functional requirement. Give example for each.	10
b.	Explain the requirements engineering process.	10

UNIT - III

5 a.	Explain the different modular decomposition styles.	10
b.	Describe the object oriented design process.	10
6 a.	Explain the repository model. List its advantages and disadvantages.	10
b.	Explain the risk management process.	10

UNIT - IV

7 a.	Explain the extreme programming release cycle. List the advantages of pair programming.	10
b.	Explain the Agile principle. List its limitations.	10
8 a.	Explain the extreme programming practices.	10
b.	Describe Lehman's law of program evolution dynamics.	10

UNIT - V

9 a.	Explain the program inspection process. Describe the various roles involved in this process.	10
b.	Explain the clean room development process.	10
10 a.	Explain interface testing.	10
b.	Explain the factors governing staff selection.	10

✳ ✳ ✳ ✳