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

(An Autonomous Institution affiliated to VTU, Belgaum)

Third Semester - Master of Computer Applications (MCA)
Semester End Examination; Dec. - 2015
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 are the essential attributes of good software? Explain in detail.	10
b.	What is incremental software development? Explain with a neat diagram.	10
2 a.	Explain the principles of agile methods.	10
b.	Explain the extreme programming release cycle with a neat diagram.	10

UNIT - II

3 a.	Explain the structure of a software requirement document.	10
b.	Explain the generic activities of requirement engineering process.	10
4 a.	Explain the principle properties of dependability.	10
b.	Explain the different terms of safety terminology.	10

UNIT - III

5 a.	Explain different types of UML diagram types.	10
b.	What are the state machine models? Explain with the example of microwave oven.	10
6. a.	What are the architecture and system characteristics? Explain.	10
b.	What are the common activities of objective oriented processes? Explain.	10

UNIT - IV

7 a.	What are the characteristics of a component? Explain in detail.	10
b.	List and explain the design issues of distributed systems.	10
8 a.	Explain different project management activities in detail.	10
b.	Explain the risk management processing with a neat diagram.	10

UNIT - V

9 a.	Explain the factors which affect software pricing in detail.	10
b.	Explain project scheduling process with a neat diagram.	10
10 a.	Explain the model of the software testing process with a neat diagram.	10
b.	Explain system testing in detail.	10

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