Total No. of Questions: 12]	SEAT No.:
P1346	[Total No. of Pages : 2

[4858] - 1090

T.E. (Computer Engineering) (Semester - II) SOFTWARE ENGINEERING (2012 Pattern) (End Semester)

Time: 3 Hours] [Max. Marks: 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

<u>UNIT - I</u>

- Q1) Discuss the similarity and differences between pure evolutionary development and the agile development approaches in use today? [7]
- Q2) What is Extreme Programming? Explain the Extreme Programming process. [7]

UNIT - II

Q3) What do you mean by CRC? Write the steps for identifying analysis classes using CRC modeling. [7]

OR

Q4) Explain how do we negotiate and validate requirements during requirement analysis process? [7]

UNIT - III

Q5) Explain refactoring? Give the importance of refactoring in improving quality of software.[6]

OR

Q6) Enlist different types of architectural styles and explain any one software architecture in detail.[6]

P.T.O.

<u>UNIT - IV</u>

Q 7)	a)	principles of software testing? [9]	
	b)	Differentiate between: [8]	
		i) Condition and loop Testing	
		ii) Verification and Validation	
		OR	
<i>Q8</i>)	a)	What do you understand by system testing? What are the different kinds of System testing that are usually performed on large software products? [9]	
	b)	What do you understand by the term integration testing? Which types of defects are uncovered during integration testing? [8]	
<u>UNIT - V</u>			
Q9)	a)	Explain in detail software process and project metrics. [9]	
~ /	b)	What are the different categories of Risk. Explain Risk management process in detail. [8]	
		OR	
Q10)	a)	What is project decomposition? What are the work task for communication process using process decomposition. [9]	
	b)	Explain COCOMO model for project cost estimation. [8]	
<u>UNIT - VI</u>			
Q11)	a)	What is the need for Software Quality? Explain different McCall's quality factors. [8]	
	b)	What is significance of Object Constraint Language (OCL)? Explain in detail. [8]	
		OR	
Q12)	a)	Explain the working of service-oriented architecture. [8]	
	b)	What is Software Quality? What are the factors affecting Software Quality? [8]	

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