

Seat	
No.	

T. E. (Info. Tech.) (Semester – I) Examination, 2014 SOFTWARE ENGINEERING (2008 Course)

Time: 3 Hours Max. Marks: 100

Instructions: 1) Answers to the **two sections** should be written in **separate** answer books.

- 2) Answer any three questions from each section.
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right side indicate full marks.
- 5) Use of calculator is allowed.
- 6) Assume suitable data if necessary.

SECTION - I

1.	 a) Define software engineering. Explain the failure curve of software. Explain in detail the following software myths: 1) Management myths 2) Customer myths 	10
	b) Explain software spiral process model. OR	6
2.	a) Explain in detail extreme programming.	8
	b) Explain the umbrella activities of software process in detail.	8
3.	 a) Explain Domain analysis. Discuss in short data objects, cardinality and modularity in data models. 	8
	b) Explain the requirement elicitation process. OR	8
4.	a) Draw a level 0, level 1 and level 2 DFD for a library book issuing system for a college student.	7
	b) Explain the class based elements of analysis model in detail.	9
5.	a) In the context of software design, explain the following in brief:1) Information hiding2) Refactoring	8
	b) Explain the golden rules used for user interface design.	8
	c) List the various elements that make up the design model of any system. OR	2



6.	a)	Explain all architectural styles in detail.	10
	b)	Explain the web design pyramid. What are interface design principles for web application?	8
		SECTION - II	
7.	a)	What are the objectives of unit testing? How is unit testing carried out?	8
	b)	Compare and contrast integration testing for conventional and object oriented software.	8
		OR	
8.	a)	What is black box testing? Explain the ways to perform black box testing.	8
	b)	What are the testing strategies for web application? Explain the testing process for web application.	8
9.	a)	Explain the FP based Estimation Decomposition Technique.	8
	b)	Explain decision tree to support make-buy decision with an example. OR	8
10.	a)	What is empirical estimation model? Explain with any one technique.	8
	b)	What is the relevance of four P s in project planning? Explain in detail.	8
11.	a)	What is risk mitigation, risk monitoring, risk management? Explain in brief.	10
	b)	Define SCM. What are the contents of SCM repository? OR	8
12.	a)	What are the software quality factors ? Explain any four.	12
	b)	Explain the various steps involved in change control process.	6

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