

T.E. (Information Technology) (Sem. – II) Examination, 2010 SOFTWARE ENGINEERING (2003 Course)

Time: 3	Hours Max. Marks: 1	00
Inst	 ructions:1) Answers to the two Sections should be written in separate answ books. 2) From Section I answer Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6 and answer Q. 7 or Q. 8, Q. 9 or Q. 10, Q. 11 or Q. 12. 3) Neat diagrams must be drawn wherever necessary. 4) Figures to the right indicate full marks. 	
	SECTION – I	
1. a) S	State and explain five generic process framework activities.	10
	'Although industry is moving towards component based construction most software continues to be custom built". Explain. OR	8
	Explain with diagram formal techniques available for assessing the software process.	10
b) S	State and explain software practitioners myths and reality.	8
The state of the state of the	What is the importance of testing practices? What are the principles of testing practices?	8
b) \	What questions must be asked and answered to develop realistic project plan?	8
	iv) Layered architecture, SO	
	Explain with example architecture defined and developed as part of Business Process Engineering.	8
b) \	What does the system Engineering model accomplish?	8



5.	a)	What is required to develop an effective use case?	6
	b)	What information is produced as a consequence of requirement gathering?	4
	c)	Define following terms with suitable example.	6
		 Cardinality Modality. OR	
6.	a)	Draw and explain context level, level 1 and level 2 DFD for college gathering.	10
	b)	Explain concept of structured analysis and object oriented analysis and point	
		out the difference between two analysis models.	6
		SECTION – II	
7.	a)	What is meant by design process? What is the characteristics of a good design?	8
	b)	Explain the following architectural styles with neat diagrams.	8
		i) Data centered architecture	,
		ii) Data flow architecture	
		iii) Call and return architecture	
		iv) Layered architecture.	
		a) Explain with example architecture defined and develop $_{\mathbf{N}}$ or part of Busin	
8.	a)	Explain the term the people and the product of management spectrum.	8
	b)	Explain the following quality attributes maintainability, integrity and usability.	8



	9. a)	Explain the following software estimation decomposition techniques	
		i) FP based	4
		ii) LOC based.	4
	b)	Why is it difficult to develop an estimation technique using use cases? What is software scope?	8
		OR	
	10. a)	Explain decision tree to support make buy decision with an example.	8
	b)	Explain process based estimation with an example.	8
	11. a)	What is software configuration management?	2
	b)	Explain SCM Repository.	2
	c)	What are roles, features and contents of SCM repository?	5
	d)	What are activities of software maintenance?	2
	e)	Explain software reengineering process model with a diagram.	7
) State and ex OR	
1	12. a)	How is configuration audit conducted?	2
	b)	Explain the change control process with a neat diagram.	7
	c)	Explain following terms in details	
		i) Version Control	3
		ii) Restructuring	3
		iii) Forward Engineering.	3