

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

Time: 3 Hours Max. Marks: 100

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

- From Section I answer Q. 1 or Q. 2, Q. 3 or Q. 4, Q. 5 or Q. 6 and Section II 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.

## I - NOITOAS 5. 2) Draw a dain flow diagram (level 0, level 1 and level 2) for securing first year

1	. a)	State the characteristics of software.	3
	b)	State the practitioner's myths.	4
	c)	Explain the failure curve of software.	4
	d)	What are the goals of Project planning in CMMI level 5?	3
	e)	What are the practices of project planning in CMMI level 5?	4
		OR 9.0	
2	2. a)	Explain the RAD software process model in brief.	6
	b)	Explain the Unified Processing model in brief.	6
	c)	State the umbrella activities in the software process frame work.	6
3	3. a)	What is the essence of software engineering best practices?	2
	b)	What is the importance of communication? State communication practices.	6
	c)	What is the focus of construction practices? Explain coding principles.	8

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4	a)	What is the objective of software testing?	2
	b)	Explain the testing principles.	6
	c)	What are the elements of product engineering hierarchy? Explain in brief.	8
005	. a)	State the requirement engineering tasks.	3
	b)	Explain the class based elements in detail.	5
	c)	Define the following in the context of data modelling:	8
		i) Data attributes	
		ii) Relationships	
		iii) Cardinality	
		iv) Modality.	
		OR	
. 6	. a)	Draw a data flow diagram (level 0, level 1 and level 2) for securing first year engineering admission in a college. (1+2+5)	=8)
1	b)	Write a note on behavioural elements in the analysis model.	8
		SECTION - II lo avuno amiliai ani mangkai (a	
E 7	. a)	State design principles. Explain modularity in detail.	8
	b)	Explain data centred architecture design in detail.	10
		OR	
8	. a)	Narrate the steps in user interface design.	6
		Explain the call return architecture in brief.	6
	c)	Explain the pipe and filter in brief.	6
: 5 9	. a)	What are the categories of software resources? List the details of each type.	8
6 3	b)	What are the four P in software project management spectrum? Explain the people factor towards the success of the project.	8
		OR 90	J



10.	a)	What is the software measurement objective? What is OO metric?	8
	b)	Explain the LOC based software estimation in detail.	8
11.	a)	What is the need of SCM? What is the role of SCM repository in SCM?	8
	b)	What is configuration audit?	4
	c)	What is status reporting?	4
		OR	
12.	a)	What is forward engineering and reverse engineering? Explain in brief.	8
	b)	How is reverse engineering used in understanding data and process?	8

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