## FACULTY OF INFORMATICS

## B.E. 4/4 (IT) I – Semester (Main) Examination, December 2010 Subject : Software Reuse Techniques (Elective – III)

Time: 3 Hours

Max.Marks: 75

Note: Answer all questions. All questions carry equal mark

## PART – A (25 Marks)

		PARI - A (25 Mains)	
1.	Lis	at the advantages of software re-use?	2
2.		fine a design pattern? What is its necessity in software design?	3
3.		hat are the basic principles of software re-use?	2
4.		hat is the intent of abstract factory and builder pattern?	3
5.		st the common causes for redesigning a system?	2
6.		ention the classification of design patterns?	2
7.		hat are the known uses of singleton pattern?	3
8.		hat is the difference between structural, behavioural and creational patterns?	3
9.		hat are the consequences of applying mediator pattern?	3
10		hat are the primary activities in a single software development life cycle.	2
		PART – B (50 Marks)	
			gen.
11	l.(a)	How can the software re-use be adopted systematically and incrementally?	5
	(b)	Explain.  How do the objects unify the modeling process? Explain.	5
12	2.(a) (b)	Explain step-by-step approach for applying a design pattern effectively? Explain the procedure for selecting a particular design pattern for solving a design problem.	5 5
1:	3.(a) (b)	Explain the intent, structure, participants of factory method? Explain the intent, motivation, applicability of adapter pattern?	5 5
1	4.	Explain in detail about chain-of-responsibility pattern?	10
. 1	5.(a) (b)	What are the different types of proxies? Explain. Explain the intent, structure of whole-part design pattern?	6
1	6.(a) (b)	and the state of a section of the state of t	5 5
1	7.	Write short notes on:  a) Re-use driven software engineering. b) View-handler.	10