FACULTY OF INFORMATICS

B. E. 4/4 (IT) I Semester (Suppl.) Examination, July 2012

Subject: Software Reuse Techniques (Elective - III)

Time: 3 Hours Max. Marks: 75

Note: Answer all questions from Part-A. Answer any Five questions from Part-B.

PART – A (25 Marks)

1.	Define object oriented software engineering?	2
2.	What is software re-use? Mention the advantages of software re-use.	3
3.	What are the basic principles of software re-use?	3
4.	What is a design pattern? Give examples.	2
5.	What is a creational pattern? What is the intent of factory pattern?	3
6.	What is the intent of adapter and bridge pattern?	3
7.	What are the advantages of chain of responsibility pattern?	2
8.	Draw the structure of observer pattern. Mention the participants in observer pattern.	3
9.	What is the intent of pipes and filters architectural pattern?	2
10.	What are the common uses of model-view-controller architectural pattern?	2
	PART – B (50 Marks)	
11.(a) What is re-use driven software engineering. Explain its advantages. b) Explain about applications and components subsystems?	5 5
12.(a) Eplain the intent, structure, motivation and applicability issues of builder	5
(1	pattern. b) Explain the intent, structure, participants, motivation and consequences of singleton pattern.	5
13.	Explain the intent, structure, motivation, participants, applicability, implementation issues, consequences, known uses of flyweight pattern?	10
14.(a) Explain the intent, motivation, applicability, collaborations and	5
(consequences of interpreter pattern? b) Explain about the applicability, consequences and collaborations of strategy pattern with reference to the structure of the pattern?	5
15.	Explain in detail about the blackboard architecture for repository systems.	10
16.((a) Explain briefly about broker architecture. (b) Explain the publisher-subscriber design pattern.	5 5
17.	Write short notes on: (a) Use case components	

(b) Micro Kernal architecture.