III B.Tech - II Semester – Regular Examinations – May 2017

DESIGN PATTERNS (COMPUTER SCIENCE & ENGINEERING)

Duration: 3 hours

Max. Marks: 70

PART – A

Answer *all* the questions. All questions carry equal marks 11x 2 = 22 M

1.

- a) What do you understand by MVC?
- b) What do you understand by object granularity?
- c) How do we describe a design pattern? Write briefly.
- d) What is a composite pattern?
- e) What is inheritance?
- f) What is the motivation for "interpreter pattern"?
- g) What is the intent of singleton pattern?
- h) What is the applicability of Abstract factory?
- i) What is a decorator pattern?
- j) Describe the document structure meaning for a Document editor.
- k) What is the intent of chain of responsibility pattern?

PART – B

Answer any <i>THREE</i> questions. All questions carry equal marks.	
$3 \ge 16 = 48 $ M	
2. a) How design patterns solve the designing problem?	8 M
b) Write a note on "how to use a design pattern".	8 M
2 a) Show the compositor and composition along	
3. a) Show the compositor and composition class relationships.	8 M
b) Describe Lexi's user interface.	8 M
4. Write about intent, motivation, structure, applicability	
and known uses of builder pattern.	16 M
5. a) Draw the structure of flyweight pattern.	8 M
b) What are the issues when implementing a flyweight	
pattern?	8 M
6. a) What is the intent and structure of observer pattern?	8 M
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b) Write about implementation of observer pattern.	8 M