III B.Tech-II Semester–Regular/Supplementary Examinations–March 2018

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) List out any four design patterns in the catalog of design patterns?
 - b) List the classification of design patterns?
 - c) Write about command history in the context of 'User Operations', design problem of Lexi's design?
 - d) List out any four design patterns used to solve the design problems of Lexi's design?
 - e) Draw the structure of singleton design pattern?
 - f) List out the four participant of factory method design pattern?
 - g) List out the four participant of adapter design pattern?
 - h) Describe in brief any two consequences of bridge pattern?
 - i) Draw the structure of Iterator design pattern?
 - j) List out the participants of observer design pattern?
 - k) List out any four participants of visitor design pattern?

PART – B

Answer any <i>THREE</i> questions. All questions carry equal matrix $3 \ge 16 = 4$	
2. a) Explain the design patterns in Small Talk MVC?	8 M
b) Explain about consistent format for describing design patterns in detail?	8 M
3. a) What is Lexi? Describe in detail about seven problems	in
Lexi's design?	8 M
b) Explain about two embellishments in Lexi's user interf	
4. a) Describe in detail about structure, participants and	8 M
collaborations of builder pattern?	8 M
b) Describe in detail about applicability, structure and	
participant of prototype pattern?	8 M
5. a) Describe several issues to be considered when applying	-
structural pattern, decorator?	8 M
b) Describe in detail about the participants and consequen	_
of flyweight pattern?	8 M

6. a) Explain in detail about the structure and participants of strategy design pattern?8 M

b) Give a detailed note on Alexander's Pattern Languages? 8 M