17IS72

# Seventh Semester B.E. Degree Examination, June/July 2024 Software Architecture and Design Pattern

Time 1/3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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1	a.	What is object oriented development? Exp	plain key concept of OO design.	(10 Marks)
	b.	What is design pattern? Explain essential	elements of design patterns.	(05 Marks)
	C.	Explain how to describe a design pattern.		(05 Marks)

### OR

2	a.	Explain how design pattern color design problem.	(10 Marks)
	b.	Explain how to select a design pattern.	(05 Marks)
	C.	Explain how to use a design pattern.	(05 Marks)

## Explain how to use a design pattern.

### Module-2

3	a.	Explain activities involved with analysis plan.	(10 Marks)
	b.	What are the guidelines to remember when writing use cases?	(05 Marks)
	0	Evaluin concentual software and implementation classes	(05 Marks)

#### OR

4	a.	Design the use	case diagram of lil	brary syst	tem and explai	n any two	o use ca	ses.	(10 M <sub>2</sub> )	,
	b.	Construct and	explain sequence	diagram	for returning	book in	library	system.	How	is it
		implemented.				X 53	<i>*</i>		(10 Ma	

5	a.	Explain decorator pattern in detail.	(10 Marks)
		What are the issues to consider when implementing composite pattern.	(10 Marks)

# OR

6	a.	Explain in detail proxy pattern.	(10 Marks)
	b.	Explain in detail Bridge pattern.	(10 Marks)

7	a.	With neat diagram, explain MVC architecture and after	mative view of MVC architecture.	
			(10 Marks)	
	b.	Explain the issue needed to be highlighted when imple	menting the undo operations.	

(05 Marks)

What are benefits of MVC pattern?

#### (05 Marks)

- Describe the process of designing the system in detail taking simple drawing program as an 8 a. example. (10 Marks)
  - Describe implementation of view class with example. (05 Marks)
  - Define Controller. Explain steps involved in defining the controller. (05 Marks)

### Module-5

9 a. What are distributed systems? Explain the basic architecture of client server system.

(10 Marks)

b. Explain the process of implementing a remote object system.

(10 Marks)

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10 a. Explain how to implement object oriented system on the web.

(10 Marks)

b. Write a note on Remote method invocation in Java.

(10 Marks)

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