

15IS72

CMR Seventh Semester B.E. Degree Examination, Feb./Mar. 2022

Software Architecture and Design Patterns

Time: 3 hrs.

Max. Marks: 80

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

			Module-1	
	1	a.	What is Object - Oriented Development? Describe the key concepts of object	oriented
			design.	0 Marks)
		b.	Describe Design patterns.	6 Marks)
			OR	
	2	a.	List the benefits and drawbacks of paradigm. (0	6 Marks)
		b.		0 Marks)
			Module-2	
1 -	3	a.		8 Marks)
	-	b.	- con the table to the table of the form and an about	s for the
			library system.	8 Marks)
ò			OR	
	4	a.	Explain the Design process. (0	8 Marks)
		b.	Illustrate sequence diagrams for any two	
			i) Adding new members ii) Issuing Books iii) Printing Member Transaction	
			Pertaining to a library system.	8 Marks)
	77626		Module-3	001101100
	5	a.	Describe a class adapter towards its structure, participant, Collaboration and Conse	8 Marks)
		b.		8 Marks)
		υ.	Explain the Bridge pattern, Motivation and application.	o mana)
			OR	
	6	a.	List out the issues in implementing composite pattern. (0	8 Marks)
		b.	Write short note on: i) Facade ii) Proxy.	8 Marks)
			Module-4	
	7	а		8 Marks)
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7	a. What is MVC architecture pattern? Explain and list the benefits.	(UO Marks)
	b. Explain Designing the system, subsystem for an interactive system.	(08 Marks)

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8	a.	List the issues in context of implementing the undo operation.	(06 Marks)
		List the characteristics of Architectural pattern	(05 Marks)
	0	Write a note on different Architectural pattern.	(05 Marks)

Module-5

9 Explain in detail JAVA REMOTE METHOD INVOCATION. (16 Marks)

OR

a. Explain HTML and Java servlets pertaining to object oriented system on the web. (08 Marks)
 b. Write a note with minimal consideration is designing and developing a web-based version of a library system. (08 Marks)

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