15IS72 Seventh Semester B.E. Degree Examination, Dec.2023/Jan.2024 Software Architecture and Design Pattern

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions, choosing ONE full question from each module.			
		Module-1	
1	a.	Describe the General template of Design pattern.	(08 Marks)
	b.	Explain object oriented key concepts.	(08 Marks)
		OR	
2	0	Explain the following:	
4	a.	i) Aggregation ii) Delegation iii) Inheritance iv) Abstract class.	(08 Marks)
	b.	Analyse various steps to use a design pattern.	(08 Marks)
		Module-2	(00 Mayles)
3	a.	Sketch the sequence diagram for adding a book into library system.	(08 Marks) (08 Marks)
	b.	Explain guidelines to write Use Case.	(00 11241115)
		OR	
4	a.	Design class diagram for Boom class in a library system.	(08 Marks)
	b.	Write Use Case for place hold and remove hold.	(08 Marks)
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5	0	Module-3  Explain structure and participants of composite design pattern.	(08 Marks)
3	a. b.	Describe Application and consequences of proxy design pattern.	(08 Marks)
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		OR	
6	a.	Explain consequence and implementation of Decorator design pattern.	(08 Marks)
	b.	Write UML diagram to represent the structure and explain the participants of	(08 Marks)
		Design pattern.	(00 1/14/11/15)
		Module-4	
7	a.	Discuss MVC architectural pattern.	(08 Marks)
	b.	Explain sequence diagram for drawing a line along with steps.	(08 Marks)
		OR	
Q	a.	Discuss the scheme of implementing undo operation along with issues.	(08 Marks)
o	b.	Explain the implementation details of Model class along with necessary prototype	2
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		Module-5	(0.17.5 1)
9	a.	Explain Basic architecture of client/server systems.	(04 Marks) (12 Marks)
	b.	List and briefly explain the steps to setting up a remote object.	(12 Marks)
		OR	
10	a.	Design state transition diagram for Add book and issue book.	(07 Marks)
	b.	Write a short note on:	
		i) Selection statement ii) Loop iii) Arrays BANGALORE - 560 037	(09 Marks)