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	** ** ** ** ** ** ** ** ** ** ** ** **	18CS731

Seventh Semester B.E. Degree Examination, July/August 2022 Software Architecture and Design Pattern

Time: 3 hrs. Max. Marks: 100

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

	1 4 6	ne. Answer any FIVE jun questions, Choosing O. D. J	
1	a. b. c.	Module-1 What is design pattern? Explain essential elements of design pattern. Explain key concept of object oriented design. What are benefits of drawback of object oriented design?	(08 Marks) (08 Marks) (04 Marks)
2	a.	OR List the activities of analysis phase? Explain different type of requirements with	examples.
2	a.	List the activities of analysis phase: Explain different type at the	(08 Marks)
	b.	Draw and explain sequence diagram for,	
		(i) Issueing a book from library.	
		(ii) Removing a book from library.	(06 Marks)
	C.	What are the guidelines to remember when writing use cases?	(06 Marks)
		Module-2	(08 Marks)
3	a.	Explain the structure and applicability of an bridge pattern.	
	b.	Explain different issues need to be consider while implementing the composite par	(08 Marks)
	C	With a neat diagram, explain the structure of adapter pattern	(04 Marks)
		With a heat diagram, explain the structure of adapter parties	
		OR	
4	a.	Explain the issues to be consider when implementing decorator pattern	(08 Marks)
	b.	Explain different participents in fly weight pattern	(04 Marks)
	С.	Explain structure and participents of proxy pattern.	(08 Marks)
		Module-3	
5	a.	Explain structure, participents, Applicability in chain of responsibility pattern.	(06 Marks)
3	b.	Explain the implementation details of iterator pattern.	(08 Marks)
	c.	Describe the motivation of mediator pattern with neat diagram	(06 Marks)
		OR	
6	a.	Explain different issues need to be considered while implementing observer patte	rns.
			(08 Marks)
	b.	What are the different consequences of memento pattern?	(06 Marks)
	C.	Explain structure and participents in visitor pattern.	(06 Marks)
		Module-4	
7	a.	With a neat diagram, explain alternate view of M.V.C pattern	(06 Marks)
,	b.	Explain different issues need to be highlighted when implementing undo operation	
		i and operate	(08 Marks)
	C.	Draw and explain sequence diagram for,	
		(i) Sequence of operation for drawing a line.	
		(ii) Sequence of operation for adding a label.	(06 Marks)
		1 of 2	,

OR

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8	9	Explain the characteristics of architectural pattern in pattern based solution.	(08 Marks)
()	и.	Explain the characteristics of architectural pattern in pattern in	(08 Marks)
	b	With neat diagram, explain the design of the view subsystem.	(UO MAIKS)
	0.	with heat diagram, explain the design of the	(04 Marks)
	C	Explain different benefits of M.V.C. natterns.	(0 ,

Module-5

0		What are distributed system? Explain the base architecture of client server syst	tem. (08 Marks)
9	a.	What are distributed system? Explain the base are interture of each	(08 Marks)
	b.	Explain the process of implementing a remote interface.	(00
		Compare Get and Post method	(04 Marks)

OR

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10	а	How to develop the user requirement? Explain steps involved in it by taking	Horary Syster
10	и.	now to develop the user requirement. Explain as a	(08 Marks
		as example.	(O/ Manks
	1.	Draw and explain sequence diagram for renewing book in library system.	(06 Marks
	D.	Draw and explain sequence diagram for renewing cook in north	(06 Marks
	C.	Draw and explain the directory structure of servlet.	(00 marks



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