CBCS SCHEME

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Seventh Semester B.E. Degree Examination, Jan./Feb. 2021 Software Architecture and Design Patterns

Time: 3 hrs. Max. Marks: 80

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

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		Module-1				
1	a.					
			(08 Marks)			
	b.	List out the templates used in describing design pattern.	(04 Marks)			
	c.	Name any four design pattern available in catalog of design pattern.	(04 Marks)			
		OR				
2	a.	Name the several approaches to find the design pattern that's rights for your probl				
		- a 11 () () () () () () () () ()	(06 Marks)			
	b.	Define object oriented development. Name the various key concepts of OOD.	(06 Marks)			
	c.	Explain the benefits and drawback of the paradigm in OOD.	(04 Marks)			
		Module-2				
3	a.	List out the business process of the library system.	(05 Marks)			
	b.	Define business rule. List out the rules of the library system.	(07 Marks)			
	c.	Explain how do business rules relate to use cases with its four categories.	(04 Marks)			
		OR				
4	a.	List out the guidelines to remember when writing use cases.	(07 Marks)			
	b.	What is domain analysis? Explain the thumb rules and caveats come on handy.	(06 Marks)			
	c.	Compare business process modeling and use case modeling.	(03 Marks)			
		Module-3				
5	a.	Define structural pattern. List out the consequences of adapter pattern.	(05 Marks)			
	b.	Describe the two important issues when implementing the fly weight pattern.	(04 Marks)			
	c.	Describe the implementation and sample code of adapter pattern.	(07 Marks)			
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	#	OR				
6	a.	Define the intent of Bridge pattern. Mention the consequences of bridge pattern.	(04 Marks)			
	b.	What is decorator pattern? Explain with neat sketch various participants of decora	tor pattern.			
			(07 Marks)			
	c.	Explain with necessary diagram how compiler facade makes life easier	for most			
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Module-4

7 a. Mention and explain benefits of MVC pattern.

programmers.

(05 Marks)

(05 Marks)

- b. With suitable use case tables explain analyzing a simple drawing program of MVC pattern.
 (06 Marks)
- c. Explain interaction diagram for the bridge pattern between the two classes. (05 Marks)

OR

8 a. Explain the sequence of operations for adding a label which deals with the Environmental variables.
b. Explain the design of the controller subsystem with controller class diagram. (08 Marks)

Module-5

9	a.	What is remote object? Explain Java Remote Method Invo	ocation.	(06 Marks)
	Ъ.	Explain implanting an object oriented system on the web.		(06 Marks)
	c.	Write short notes on servlet container		(04 Marks)

OR

10	a.	Explain the class diagram for library servlets.	(06 Marks)
		Explain simplified sequence diagram for removing books.	(08 Marks)
		Define sessions and session object of servlets.	(02 Marks)