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## B.E. (Computer Science Engineering) Sixth Semester (C.B.S.)

## **Design Patterns**

	ages : 2 e : Thre	e Hours		* 1 2 6 1		<b>NIR/KW/18/3491</b> Max. Marks : 80
1.	b)	2. Sc 3. Sc 4. Sc 5. Sc 6. Sc 7. Sc 8. Do 9. As 10. Di 11. III 12. Us Describe th i) Abstra ii) Match 1. A 2. F 3. A 4. B	ssume suitable data a agrams and chemica ustrate your answers se of non programm are elements of designant factory is also known the following.  I the following.  I bestract actory method adopter pattern ridge pattern	Questions No. Questions No. Questions No. Questions No. Questions No. Questions No. Questions No en to neatness a whenever nece al equations sho s whenever nece able calculator  n pattern.  a. b. c. d.	2. 4. 6. 8. 10 12. and adequate dimensions. ssary. ould be given whenever necessary with the help of neat is permitted.  Wrapper Handle/Body Kit Virtual constructor	sketches.  6 1 4
		a) N	Iotivation	b)	n design pattern description?  Domain	
	W	c) C	onsequences	d)	Related patterns	W M
				O	K (2)	7
2.	a)	Explain des	sign pattern. List all	design patterns	s and its classification.	7
	b)	Explain usa	age of design pattern	with proper ex	xample.	6
3.	a)	Explain the	concept of prototy	oe design patter	rn with suitable example.	7
		Define Intent, Also known as, Applicability sample code of bridge design example.				pattern with 6
	$\Lambda$		J) (2	0	R	
4.		Explain wh and disadva		pattern plays	on important role along with	its advantages 7
	b)	Explain abs	stract factory design	pattern with cl	ass diagram.	6

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5.	a)	Explain Adapter design pattern in terms of its intent, applicability, structure and consequences.						
	b)	Where to use Decorator design pattern explain with example.						
		OR						
6.	a)	How to implement composite design pattern explain with suitable example.	7					
	b)	Explain the role of structural design pattern in object oriented design.						
7.	a)	Illustrate the notion of command design pattern with suitable example. 7						
	b)	Explain template method design pattern with class diagram implementation.						
		OR						
8.	a)	Match the following design pattern with the design aspects that design patterns let you vary.						
		a) Strategy i) Grammar & interpretation of long						
		,						
		d) Interpreter iv) How and which object interact with each other.						
	b)	Explain observer design pattern intent, motivation, consequences and applicability.						
	c)	Explain mediator design pattern in terms of intent, structure, usage and applicability.						
9.	a)	Which design pattern is suitable for supporting multiple look-and-feel standards. Explain with example.						
	b)	Explain the concept of embellishing the user interface.						
		OR	1/					
10.	List and explain the seven design problem for document editor application.							
	b)	Which design pattern is help for spelling checking and hyphenation problem.						
11.	a)	What are design complexities? List the design complexities.						
	b)	Explain the design pattern application for gaming.						
		OR						
12.	a)	Explain methods to analyze the complexities of design pattern.						
	L)	Emplain the weathest dealers and its small setters	4					
	b)	Explain the product design and its application.	0					

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## The secret of getting ahead is getting started. ~ Mark Twain

