

MCA.V/01.22.002

Reg.No.

--	--	--	--	--	--	--	--

B

MCA DEGREE FIFTH SEMESTER EXAMINATION, JANUARY 2022**19-381-0526 DESIGN PATTERN****(Regular)****Time: 3 Hours****Maximum Marks: 50**

(Answer ANY FIVE questions)
(All questions carry EQUAL marks)

		QUESTIONS	Marks	CO	BL	PI
1	(a)	How can Design Patterns solve Design problems?	7	CO1	L3	1.7.1
	(b)	Illustrate UML activity diagram of Waterfall Model of Software life cycle.	3	CO1	L3	1.7.1
2.	(a)	Differentiate between Adapter and Bridge Design Pattern.	4	CO2	L2	1.4.1
	(b)	With a neat diagram explain the motivation of Abstract Factory Method.	6	CO2	L2	1.6.1
3.	(a)	Explain applicability, consequences and structure of Chain of responsibility with a suitable example.	7	CO3	L2	1.4.1
	(b)	Describe Mediator Design Pattern with a sample code.	3	CO3	L2	1.7.1
4.	(a)	Write a JFC Program to read input from user and print the output.	4	CO4	L2	1.4.1
	(b)	Explain about four Swing components with sample code.	6	CO4	L2	1.4.1
5.		Describe JLIST, JTABLE and JTREE with a sample code and their output.	10	CO4	L2	1.4.1
6.		a. Describe the following with example. 1. Expert. 2. Creator. 3. Low Coupling. 4. High Cohesion. 5. Controller.	10	CO5	L1	1.4.1
7.	(a).	You have responsibility to manage to a class, but this conceptual model causes low coupling and high cohesion. Identify which GRASP principle is used in the above situation and Explain with example.	7	CO5	L3	2.5.1
	(b).	Explain Polymorphism on the basis of GRASP Pattern.	3	CO5	L2	1.4.1
