Code No.: IT732PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-I-Semester End Examinations (Supply) - April- 2024 DESIGN PATTERNS

(IT)

[Time: 3 Hours]
Note: This question paper contains two parts A and B.

[Max. Marks: 70]

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	PART-A	(20 Marks)
1. a) b) c) d) e) f) g) h) i)	Define the meaning of "Intent" in design pattern. Explain Pattern name. What is Lexi? What is role of formatting in design document editor? What are related patterns in Abstract Factory pattern? List five types of Creational patterns. What are the two variations of the Adapter pattern? Define Bridge pattern. What we are using in Interpreter pattern? What is the benefit of Momento pattern?	[2M] [2M] [2M] [2M] [2M] [2M] [2M] [2M]
2.	Explain MVC architecture in Small Talk. OR	(50 Marks) [10M]
3.	Give the step-by-step approach to apply a design pattern effectively.	[10M]
4.	Explain embellishing the user interface in Design patterns. OR	[10M]
5.	Explain in detail about "supporting multiple window systems".	[10M]
6.	Illustrate the features of Creational patterns and write sample code of Prototy pattern.	/pe [10M]
7.	Explain consequences, implementation, and sample code of Singleton pattern detail.	in [10M]
8.	Explain in detail about the participants and consequences of Composite pattern. OR	[10M]
9.	Explain about implementation issues of Decorator pattern.	[10M]
10.	Explain its uses and implementation issues in motivation behind the Observer patter OR	n. [10M]
11.	Explain about the structure and participants of state design pattern.	[10M]