Code No.: CS853PE

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

IV-B.TECH-II-Semester End Examinations (Regular) - April - 2024 DESIGN PATTERNS

(CSE)

[Time: 3 Hours] [Max. Marks: 70]

Note: This question paper contains two parts A and B.

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)	What is a Design Pattern? List the four elements of design patterns? Define an Iterator class? Define structure? Define creational design patterns? Description about the singleton creational pattern. Define i) composite design pattern ii) bridge pattern Sketch the structure of Façade pattern. Explain the implementation issues of a Iterator pattern. What is a Iterator design pattern?	[2M] [2M] [2M] [2M] [2M] [2M] [2M] [2M]
2.	Discuss the MVC architecture in small talk.	(50 Marks) [10M]
3.	OR List the different sections of design patterns. Explain about them.	[10M]
4.	Discuss about structure, applicability, participants of abstract factory method OR	[10M]
5.	Explain the process of recursive composition in building a document.	[10M]
6.	Explain the implementation of abstract factory. OR	[10M]
7.	Discuss the implementation issues of builder design pattern.	[10M]
8.	In what way structural pattern differs from creational pattern? Explain in detail. OR	[10M]
9.	Draw and explain the structure of a composite pattern.	[10M]
10.	Briefly explain about the issues that should be considered while implementing the chair Responsibility pattern.	n of [10M]
11.	OR Explain command design pattern and interpreter design pattern?	[10M]