Code No: R194112C **R19** Set No. 1

IV B.Tech I Semester Advance Supplementary Examinations, March – 2023
DESIGN PATTERNS
(Information Technology)

Time: 3 hours **Max. Marks: 75**

Answer any FIVE Questions
ONE Question from Each unit
All Questions Carry Equal Marks
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UNIT I

1	a)	Explain the Formatting –algorithm in Document Structure?	[7]
	b)	Explain the Spelling Checking and Hyphenation in Document Structure.	[8]

(OR)

2	a)	Compare the Glyph and Mono Glyph.	[7]
	b)	How to Determine Object Granularity?	[8]

UNIT II

3	a)	Explain the Intent and Structure of Singleton pattern?	[7]
	b)	What are the consequences of the Abstract Factory pattern?	[8]

(OR)

4	a)	Explain the Sample Code and Related Pattern of Prototype Pattern?	[7]
	b)	How many objects is the Singleton responsible for creating?	[8]

UNIT III

5	a)	Explain the Implementation of Façade Pattern with suitable examples?	[7]
	b)	Explain the Intent and Participants in Bridge Pattern?	[8]

(OR)

6	a)	Discuss in detail about the participants and consequences of Composite pattern	[7]
	b)	What is the intent and motivation of Façade pattern? Explain.	[8]

UNIT IV

7	a)	Explain the benefits & Drawbacks of Mediator	[7]
	b)	Explain the Iterator pattern in detail.	[8]

(OR)

8	a)	Explain Sample code & related patterns of Memento?	[7]
	b)	Should Communication be encapsulated or Distributed-compare Mediator and Observer patterns?	[8]

UNIT V

9	a)	Write about the implementation issues of State Behavioral pattern.	[7]
	b)	What are the difference between the Strategy pattern and the Template Method pattern?	[8]

(OR)

10	a)	Write short notes on visitor class and sub classes.	[7]
	b)	Describe in detail about the structure and participants of Strategy design pattern	[8]

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