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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

MCA III Year I Semester Regular & Supplementary Examinations Nov/Dec 2019
DESIGN PATTERNS

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1 a What is a Design Pattern? Explain catalog of design patterns and organization of patterns. **7M**

b Explain how to use a design Pattern? **5M**

OR

2 a What are the essential elements of a design pattern? Explain. **6M**

b Explain Design Patterns in Smalltalk MVC. **6M**

UNIT-II

3 a Briefly explain intersection of functionality and union of functionality. **6M**

b Discuss the role of patterns in designing a particular problem. **6M**

OR

4 a How to support multiple look and feel standards? Explain **6M**

b Discuss in detail about supporting multiple window systems. **6M**

UNIT-III

5 a Explain singleton creational pattern. **7M**

b Explain the role of creational patterns in design patterns **5M**

OR

6 a Explain Factory Method in detail. **7M**

b Differentiate between Factory Method and Abstract Factory. **5M**

UNIT-IV

7 a Discuss in detail about flyweight Design Pattern. **6M**

b Explain Proxy Design Pattern **6M**

OR

8 a List and explain the issues of proxy pattern **5M**

b Briefly explain Adapter Design Pattern. **7M**

UNIT-V

9 a Differentiate between command and interpreter design pattern. **6M**

b Explain in short about chain of responsibility. **6M**

OR

10 a Explain Strategy Pattern. **6M**

b Explain Mediator Design Pattern **6M**

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