R16

Reg. No: | | | | | | | | | | |

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
MCA III Year I Semester Supplementary Examinations November-2020
DESIGN PATTERNS

Time: 3 hours   Max. Marks: 60

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

UNIT-I

1 **a** Explain How design patterns solve Design Problems.   **6M**
   b Discuss the use of Design Pattern.   **6M**

OR

2 **a** Define Design Pattern. How it is used in developing the application.   **6M**
   b How to select a Design Pattern? Explain   **6M**

UNIT-II

3 **a** Write a short note on document structure.   **6M**
   b Explain The Concept of Embellishing the user interface.   **6M**

OR

4 **a** Discuss about designing the document editor.   **6M**
   b Analyze various problems associated with Lexi's Design   **6M**

UNIT-III

5 **a** What are the various issues involved in implementation of factory method? Explain. **5M**
   b Briefly explain Prototype design pattern   **7M**

OR

6 **a** Briefly explain the template of builder design pattern.   **5M**
   b Explain abstract factory of creational patterns.   **7M**

UNIT-IV

7 **a** Explain wrapper patterns and its uses with the help of a neat structure.   **6M**
   b Differentiate between structural and creational patterns.   **6M**

OR

8 **a** What is a structural pattern? Explain composite design patterns.   **6M**
   b Briefly explain Decorator Design pattern with an example?   **6M**

UNIT-V

9 **a** Explain Strategy Pattern in detail.   **7M**
   b List and explain the implementation issues of Observer Design Pattern.   **5M**

OR

10 **a** Briefly describe publish-subscribe Design Pattern.   **7M**
   b What is Memento Pattern? Explain its interaction diagram.   **5M**

*** END ***