**R18**

Reg. No:

## SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
### (AUTONOMOUS)
### MCA III Year I Semester Regular Examinations Feb-2021
### OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

Time: 3 hours                                                                 Max. Marks: 60

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

### UNIT-I

1   Clearly explain software development life cycle.                          **12M**

**OR**

2   Discuss about object oriented modeling and conceptual model.             **12M**

### UNIT-II

3   a   Describe the types and roles.                                        **6M**

   b   Discuss about ER diagram.                                             **6M**

**OR**

4   List out the modeling techniques for Class and object diagrams. Explain.   **12M**

### UNIT-III

5   a   Explain sequence diagram with your own example.                      **6M**

   b   Construct and explain collaboration diagram with your own example.    **6M**

**OR**

6   a   What are uses of the activity diagram .                              **4M**

   b   Explain activity diagram with an example.                            **8M**

### UNIT-IV

7   a   Define and explain events & signals.                                 **6M**

   b   Explain state machines in detail.                                     **6M**

**OR**

8   Explain about architectural modeling in detail.                         **12M**

### UNIT-V

9   Discuss about the unified real time application in detail.              **12M**

**OR**

10   What is pattern? Explain  the advantages of patterns in UM in detail.   **12M**

*** END ***