

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

**MCA I Year I Semester Regular & Supplementary Examinations January/ February-2025**  
**OBJECT ORIENTED PROGRAMMING THROUGH C++**

**Time: 3 Hours****Max. Marks: 60**

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

**UNIT-I**

- |           |   |     |    |     |
|-----------|---|-----|----|-----|
| 1         | Explain OOPS paradigm and the features of OOPS. | CO1 | L1 | 12M |
| <b>OR</b> |   |     |    |     |
| 2         | Define Pointer. Wxplain with suitable program.  | CO1 | L6 | 12M |

**UNIT-II**

- |   |   |     |    |    |
|---|---|-----|----|----|
| 3 | a Define class and object.                            | CO2 | L1 | 4M |
|   | b Develop a program for class and object and explain. | CO2 | L6 | 8M |

**OR**

- |   |  |     |    |     |
|---|--|-----|----|-----|
| 4 | Analyze and explain Preprocessor directives and name spaces with an example. | CO1 | L4 | 12M |
|---|--|-----|----|-----|

**UNIT-III**

- |   |   |     |    |    |
|---|---|-----|----|----|
| 5 | a Explain in detail about Operator Overloading.               | CO2 | L2 | 6M |
|   | b Identify the types of Operator Overloading with an example. | CO2 | L3 | 6M |

**OR**

- |   |  |     |    |     |
|---|--|-----|----|-----|
| 6 | a State Inheritance.                                 | CO6 | L1 | 2M  |
|   | b Classify the types of Inheritance with an example. | CO6 | L4 | 10M |

**UNIT-IV**

- |   |  |     |    |     |
|---|--|-----|----|-----|
| 7 | Differentiate between Base and Derived class virtual function with an example. | CO6 | L6 | 12M |
|---|--|-----|----|-----|

**OR**

- |   |  |     |    |     |
|---|--|-----|----|-----|
| 8 | a Define Abstract class.                                     | CO2 | L1 | 2M  |
|   | b Describe implementation of Abstract class with an example. | CO2 | L2 | 10M |

**UNIT-V**

- |   |   |     |    |    |
|---|---|-----|----|----|
| 9 | a What is Exception Handling?               | CO6 | L1 | 3M |
|   | b Develop a program for Exception Handling. | CO6 | L6 | 9M |

**OR**

- |    |   |     |    |     |
|----|---|-----|----|-----|
| 10 | Explain Stream I/O and File operations. | CO5 | L6 | 12M |
|----|---|-----|----|-----|

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