

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

MCA I Year II Semester Regular Examinations May-2026

PYTHON PROGRAMMING

Time: 3 Hours

Max. Marks: 60

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

UNIT-I

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|---|--|-----|----|----|
| 1 | a Describe various features of a python. | CO1 | L1 | 6M |
| | b Why do we need Python programming? | CO1 | L2 | 6M |

OR

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|---|--|-----|----|----|
| 2 | a Explain variables in Python with suitable examples. | CO1 | L2 | 6M |
| | b Describe constants in Python and explain how they differ from variables. | CO1 | L4 | 6M |

UNIT-II

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|---|--|-----|----|----|
| 3 | a Describe the if statement in Python with syntax and suitable examples. | CO2 | L2 | 6M |
| | b Develop a python program to find largest of two numbers. | CO2 | L3 | 6M |

OR

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|---|--|-----|----|----|
| 4 | a Write a short note on the use of break and continue in nested loops. | CO2 | L2 | 6M |
| | b Develop a python program to demonstrate break and continue statements. | CO2 | L3 | 6M |

UNIT-III

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|---|--|-----|----|----|
| 5 | a What is a function? Explain how we can create a function. | CO3 | L2 | 6M |
| | b Discuss the advantages of using functions in Python programming. | CO3 | L2 | 6M |

OR

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|---|--|-----|----|----|
| 6 | a Discuss default arguments in Python functions with examples. | CO3 | L2 | 6M |
| | b Explain variable-length arguments in Python. | CO3 | L2 | 6M |

UNIT-IV

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|---|--|-----|----|----|
| 7 | a How can we create and access the tuple in python. | CO4 | L2 | 6M |
| | b Describe the operations performed on tuples in Python. | CO4 | L2 | 6M |

OR

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|---|--|-----|----|----|
| 8 | a Explain different ways to access values in a dictionary. | CO4 | L2 | 6M |
| | b Explain the role of mutable and immutable data structures in Python programming. | CO4 | L4 | 6M |

UNIT-V

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|---|---|-----|----|----|
| 9 | a Define inheritance in Python and explain its types with examples. | CO5 | L2 | 6M |
| | b Write a python program to demonstrate the concept of Inheritance. | CO5 | L3 | 6M |

OR

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|----|--|-----|----|----|
| 10 | a Write an essay on user-defined exceptions with examples. | CO5 | L3 | 6M |
| | b Explain how to raise exceptions in Python using the raise keyword. | CO5 | L3 | 6M |

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