

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

M.Tech I Year I Semester Supplementary Examinations April-2026

PYTHON PROGRAMMING

(Computer Science & Engineering)

Time: 3 Hours

Max. Marks: 60

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

UNIT-I

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|---|---|---|-----|----|----|
| 1 | a | Describe the role and benefits of the REPL in Python. | CO1 | L2 | 6M |
| | b | What is a Variable and mention rules for choosing names of Variable with example. | CO1 | L2 | 6M |

OR

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|---|---|--|-----|----|----|
| 2 | a | Explain about the Single-Valued data types in python. | CO2 | L2 | 6M |
| | b | Write a Python program to compute the total and average of marks using input values. | CO1 | L3 | 6M |

UNIT-II

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|---|---|---|-----|----|----|
| 3 | a | Classify the different types of operators in Python and explain any four types with examples. | CO2 | L2 | 6M |
| | b | What is an expression in Python? Explain order of evaluation with example. | CO2 | L2 | 6M |

OR

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|---|---|--|-----|----|----|
| 4 | a | Enumerate Python conditional statements and demonstrate their usage with examples. | CO2 | L2 | 6M |
| | b | Write a Python program to find sum of natural numbers. | CO2 | L3 | 6M |

UNIT-III

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|---|---|--|-----|----|----|
| 5 | a | Explain about different types of arguments in Python. | CO3 | L2 | 6M |
| | b | Create recursive function to find factorial of a number. | CO3 | L5 | 6M |

OR

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|---|---|--|-----|----|----|
| 6 | a | Illustrate lambda function with example. | CO3 | L3 | 6M |
| | b | What is inheritance? Illustrate types of inheritance with python code. | CO4 | L2 | 6M |

UNIT-IV

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|---|--|--|-----|----|-----|
| 7 | | What is Module in Python? Explain, how can you use Modules in your program explain with an example code. | CO3 | L5 | 12M |
|---|--|--|-----|----|-----|

OR

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|---|---|---|-----|----|----|
| 8 | a | What is package in Python? Explain, how can you use package in your program with an example code? | CO6 | L3 | 6M |
| | b | Write about Errors and Exception Handling in Python programming? | CO4 | L3 | 6M |

UNIT-V

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|---|---|--|-----|----|----|
| 9 | a | Describe the use of the maps in Python and illustrate it with examples. | CO6 | L2 | 6M |
| | b | Explain in detail about Python Files, its types and operations that can be performed on files with examples. | CO2 | L4 | 6M |

OR

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|----|---|--|-----|----|----|
| 10 | a | Write about Dates and Times. | CO5 | L3 | 6M |
| | b | Explain about colors and filled shapes | CO4 | L2 | 6M |

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