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

B.Tech III Year II Semester Supplementary Examinations February-2022

PYTHON PROGRAMMING

(Open Elective-I)

Time: 3 hours

Max. Marks: 60

**PART-A**

(Answer all the Questions 5 x 2 = 10 Marks)

- |   |   |  |    |
|---|---|--|----|
| 1 | a | What is isalpha() in Python?   | 2M |
|   | b | Write syntax of for loop with example.                                     | 2M |
|   | c | Define Inheritance in Python programming.                                  | 2M |
|   | d | Name the optional statements possible inside a try-except block in Python. | 2M |
|   | e | What is the first argument of command line in python?                      | 2M |

**PART-B**

(Answer all Five Units 5 x 10 = 50 Marks)

**UNIT-I**

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|---|---|---|----|
| 2 | a | Define Variable and mention rules for choosing names of Variable. | 5M |
|   | b | What is Set? Explain set Operations.                              | 5M |

OR

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|---|---|--|----|
| 3 | a | Explain variable assignment with suitable example.       | 4M |
|   | b | What is data type? List out the data types with example. | 6M |

**UNIT-II**

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|---|---|--|----|
| 4 | a | Explain the Logical and Bitwise operator with example.   | 5M |
|   | b | Develop a Python program to Swapping of two numbers with and without using temporary variable. | 5M |

OR

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|---|--|---|-----|
| 5 |  | Classify various types of operators in Python and write any 4 types of operators. | 10M |
|---|--|---|-----|

**UNIT-III**

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|---|---|---|----|
| 6 | a | Express function to do all arithmetic operations.           | 4M |
|   | b | What are formal and actual arguments? Explain with example. | 6M |

OR

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|---|---|---|----|
| 7 | a | Illustrate about default arguments with example.                    | 5M |
|   | b | Write a function to return right most digits in the entered number. | 5M |

**UNIT-IV**

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|---|---|---|----|
| 8 | a | Define PIP. Discuss package installation via pip. | 6M |
|   | b | Describe about name spacing.                      | 4M |

OR

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|---|--|--|-----|
| 9 |  | Summarize the different types of Exceptions in Python. | 10M |
|---|--|--|-----|

**UNIT-V**

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|----|---|---|----|
| 10 | a | Difference Between Iterators and Generators with an example.  | 5M |
|    | b | Explain in detail about Python Files, its types, functions and operations that can be performed on files with examples. | 5M |

OR

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|----|---|--|----|
| 11 | a | Explain about the reading files in python. | 6M |
|    | b | Explain about Data Compression.            | 4M |

\*\*\*END\*\*\*