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

**B.Tech III Year I Semester Supplementary Examinations December-2021**

**PYTHON PROGRAMMING**

(Common to CSE & CSIT)

Time: 3 hours

Max. Marks: 60

**PART-A**

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

- |   |   |   |    |    |
|---|---|---|----|----|
| 1 | a | Differentiate list and tuple.             | L2 | 2M |
|   | b | Write syntax of "for loop" with example.  | L3 | 2M |
|   | c | What does the yield keyword do in Python? | L1 | 2M |
|   | d | What does the "self" keyword do?          | L1 | 2M |
|   | e | List few Built-in Exceptions in Python.   | L1 | 2M |

**PART-B**

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

**UNIT-I**

- |   |   |  |    |    |
|---|---|--|----|----|
| 2 | a | What is Indentation? Explain with example.               | L1 | 5M |
|   | b | What is data type? List out the data types with example. | L1 | 5M |

**OR**

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|---|---|---|----|----|
| 3 | a | What is dictionary? Explain various methods available in dictionary.              | L1 | 5M |
|   | b | Implement the python program to calculate total and average marks based on input. | L3 | 5M |

**UNIT-II**

- |   |   |  |    |    |
|---|---|--|----|----|
| 4 | a | Create a Python program to print first 100 Fibonacci numbers.        | L6 | 4M |
|   | b | Explain break and continue statements using "for loop" with examples | L2 | 6M |

**OR**

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|---|---|---|----|----|
| 5 | a | Discuss the Membership and Identity operators with example.   | L2 | 5M |
|   | b | Create a Python program to print prime number series up to N. | L6 | 5M |

**UNIT-III**

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|---|---|---|----|----|
| 6 | a | Compare "method overloading and overriding".              | L2 | 6M |
|   | b | Describe about class constructor (_init_()) with example. | L3 | 4M |

**OR**

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|---|---|--|----|----|
| 7 | a | Illustrate about default arguments with example.                   | L3 | 6M |
|   | b | Write a function to return right most digit in the entered number. | L4 | 4M |

**UNIT-IV**

- |   |   |   |    |    |
|---|---|---|----|----|
| 8 | a | Write about Raising Exception with an example.    | L1 | 5M |
|   | b | Elaborate User defined Exception with an example. |    | 5M |

**OR**

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|---|---|--|----|----|
| 9 | a | Explain name spacing with example.             | L2 | 5M |
|   | b | Explain about the import statement in modules. | L2 | 5M |

**UNIT-V**

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|----|---|---|----|----|
| 10 | a | What is Data Management and Object Persistence? | L1 | 5M |
|    | b | Explain about Data Compression.                 | L3 | 5M |

**OR**

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|----|---|----------------------------------|----|----|
| 11 | a | Discuss about maps in python.    | L3 | 5M |
|    | b | Discuss about filters in python. | L3 | 5M |

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