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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)**B.Tech I Year I Semester Supplementary Examinations July-2022****PYTHON PROGRAMMING**

(Common to ECE, CSE &amp; CSIT)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units **5 x 12 = 60** Marks)**UNIT-I**

- 1 a What is an algorithm? Explain characteristics of an algorithm. L1 6M  
b What are the features and applications of Python? L1 6M

**OR**

- 2 a Explain briefly about the Multi-Valued Data types with example. L1 6M  
b Differentiate between the tuple and sets in python. L4 6M

**UNIT-II**

- 3 a List various types of operators in Python and write any 4 types of operators. L3 6M  
b Write a python program to find the given number is odd or even. L2 6M

**OR**

- 4 a Explain the syntax of the following statements L1 6M  
i) for loop ii) while loop iii) if – else iv) if-elif-else  
b Implement Python program to find sum of natural numbers. L6 6M

**UNIT-III**

- 5 a What is inheritance? Illustrate types of inheritance with python code. L1 6M  
b Narrate scope of a variable in a function. L4 6M

**OR**

- 6 a Write a function to display ASCII Code of entered character. L2 6M  
b Describe how an object is passed as parameter to a method. L2 6M

**UNIT-IV**

- 7 a What is an Exception? Explain types of exceptions and give an example. L1 6M  
b Write a python code to check the given number is prime or not using modules. L2 6M

**OR**

- 8 a Explain about the import statement in modules. L1 6M  
b Describe any one regular expression with an example. L2 6M

**UNIT-V**

- 9 a Explain in detail about Python Files, its types, functions and operations that can be performed on files with examples. L1 6M  
b Explain about command line arguments. L1 6M

**OR**

- 10 a What is mean by Text File? Explain about reading and writing files in python. L1 6M  
b What is turtle with an example? L1 6M

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