

**Reg. No:**

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

**B.Tech IV Year II Semester Regular Examinations September 2020**

**PYTHON PROGRAMMING**

(Computer Science & Engineering)

Time: 3 hours

Max. Marks: 60

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

**UNIT-I**

- 1 a Explain History of Python and Need of Python Programming. 6M  
b Explain about the Single-Valued data types in python. 6M

**OR**

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

**UNIT-II**

- 3 a Write a Python program to print prime number series up to N. 6M  
b What is dictionary? Explain the methods available in dictionary. 6M

**OR**

- 4 a Write a Python program to implement Swapping of two numbers with and without using temporary variable. 6M  
b Differentiate between the tuple and sets in python. 6M

**UNIT-III**

- 5 Explain in detail about Control flow structures in python. 12M

**OR**

- 6 Explain the syntax of the following statements 12M  
i) for loop      ii) while loop      iii) if – else      iv) if-elif-else

**UNIT-IV**

- 7 a List some few common Exception types and explain when they occur 6M  
b Difference between Raising and User defined exceptions in python? 6M

**OR**

- 8 What is inheritance? Illustrate types of inheritance with python code 12M

**UNIT-V**

- 9 Write about a) String Pattern Matching      b) Turtle Graphics 12M

**OR**

- 10 a Write an example for drawing a obtuse triangle using Turtle Graphics. 6M  
b Define White box Testing. List the strategies of it. 6M

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