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

B.Tech I Year II Semester Regular Examinations October-2020

PYTHON PROGRAMMING

(Common to CE, EEE, ME & AGE)

Time: 3 hours

Max. Marks: 60

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

UNIT-I

- 1 a Define an algorithm and explain its characteristics. 5M
b Explain about the single-valued data types in Python. 7M

OR

- 2 a Differentiate between the tuple and sets in python. 6M
b What is a dictionary? Explain the methods available in dictionary. 6M

UNIT-II

- 3 a Discuss about control flow structures in python. 8M
b Write a Python program to print prime number series up to N. 4M

OR

- 4 a Describe expressions in Python with order of evaluation with an example. 8M
b Write a Python program to find the given year is leap or not. 4M

UNIT-III

- 5 a What is recursive function? Write a recursive function to find factorial of a number. 6M
b Narrate the scope of a variable in a function. 6M

OR

- 6 a How do we achieve code reusability in Python? Give an example. 5M
b Compare method overloading and overriding. 7M

UNIT-IV

- 7 a What are packages? Give an example of package creation in Python. 7M
b Write a small code to illustrate try and except statements in Python. 5M

OR

- 8 a What is matching? Explain with an example program. 6M
b Explain package installation via pip. 6M

UNIT-V

- 9 a Explain about command line arguments. 8M
b What is turtle? Give with an example. 4M

OR

- 10 a Discuss about Data Compression. 6M
b Write about map and filter in Python. 6M

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