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Example: input is n = 3

Result: 6, 5

(ii) Write a user -friendly python program the temporary variable. to swap two numbers without using

10 Marks (CO3)

(b) Discuss with suitable example how lists different from list. 10 Marks (CO4) queue. Discuss how dictionary in python is are efficient when used as a stack or

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MID SEMESTER EXAMINATION, 2021 **PYTHON PROGRAMMING** (FOURTH SEMESTER) B. TECH. (CSE)

Time: 11/2 Hours

Maximum Marks: 50

Note: (i) Answer all the questions by choosing any one of the sub-questions.

(ii) Each question carries 10 marks.

1. (a) (i) Differentiate between the Compiler and Interpreter. Is python compilerbased or interpreter-based language?

(ii) Write a short note on the use of proper example. lambda in python. Discuss with 10 Marks (CO1)

(b) Write a python program to demonstrate the following operation:

(1) Type casting of float to int

- (2) String concatenation
- (3) Logical operator demonstration
- (4) Membership operator demonstration
- (5) Bit wise operator demonstration. With each case also provide some sample

(a) (i) Differentiate between list and tuple with suitable example.

Input /Output. 10 Marks (CO3)

(ii) Write a user-friendly python program to input n elements in the list and print the result as a single integer value:

Example: n=3

Input: list = [12, 23, 34, 55]

Output: 12233455. 10 Marks (CO4)

- (b) (i) Write a simple python program to get (ii) Write a python program to print the and also print the difference between sum of all the elements of the tuple the largest and smallest number from the list.
- the largest and smallest number.

10 Marks (CO4)

(3)

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3. (a) How is Python Programming different programming plays an important role. Discuss the various domains where python from C, C++ and Java Programming?

10 Marks (CO2)

OR

- (b) (i) Write a user-friendly python program numbers Armstrong number in between these to input two numbers and print all the
- (ii) Discuss the working of for loop and example. while loop in python with suitable 10 Marks (CO3)
- 4. (a) (i) Discuss the difference between the remove and pop operation in the python list using suitable example.
- (ii) Write a python program to generate a random number. 10 Marks (CO4)
- (b) With the help of suitable user-friendly discuss the properties of Set and of set and dictionary in python. Also python program, demonstrate the working Dictionary. 10 Marks (CO4)