

CONTINUOUS INTERNAL EVALUATION- 2

Dept: EC	Sem / Div: VI / A&B	Course: Python Application Programming	Course Code: 18EC646
Date: 16/6/2022	Time: 3:00 to 4:30.p.m	Max Marks: 50	Elective: Y
Note: Answer any 2 full questions, choosing one full question from each part.			

Q N	Questions	Marks	RBT	COs
PART A				
1 a	(i) Explain while and for loops with examples (ii) Write a python program to convert a given binary number into its equivalent decimal Testcase: print(bin2dec(1001)) #9 print(bin2dec(111011)) #14.75	10	L2,L3	CO2
b	Write a python program to compute ncr Note: $ncr = \frac{n!}{r!(n-r)!}$	5	L3	CO2
c	Explain the following methods associated with lists with example for each (i) append (ii) extend (iii) pop (iv) remove (v) split	10	L2,L3	CO3
OR				
2 a	Explain the following methods associated with strings with example for each (i) dir (ii) startswith (iii) find (iv) strip (v) lstrip	10	L2,L3	CO2
b	(i) What is dictionary? Create a dictionary in Python with keys as subjects taught in 6 th semester and values as marks scored by you in IA-1 (ii) Write a Python program that accepts a sentences and build dictionary with LETTERS, DIGITS, UPPERCASE, LOWERCASE, SPECIAL CHARACTERS as key values and their count in the sentences as values Test case: Sentence = 'VTU@123e-Learning' d = { 'LETTERS': 12, 'DIGITS': 3, 'UPPERCASE': 4, 'LOWERCASE': 8, 'SPECIAL CHARACTERS': 2 }	10	L2,L3	CO3
c	Compare and contrast lists and tuples	5	L2	CO3
PART B				
3 a	(i) Explain fopen, fclose, fileread and filewrite concepts related to files with example (ii) Write a python program to read the contents of a file named input.txt, convert the words present in the file into uppercase letters and finally store the translated data into the file output.txt. Also calculate the total number of lines present in the file.	10	L1,L2	CO2
b	Differentiate between break and continue statement. Write a program using continue to compute the sum of odd numbers between the range 20	5	L3	CO2
c	(i) Explain advanced paragraph parsing, comment on the problems	10	L2,L3	CO3

Vivekananda College of Engineering & Technology, Puttur

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CRM08

Rev 1.10

EC

13/6/2022

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	encountered while handling words with punctuation's, words with uppercase/ lowercase/ capital case versions. How these problems can be resolved in python. (ii) Write a python program to read the file, create a dictionary which should contain keys as the words encountered and values as the number of occurrence of the word in the file. Remove punctuation marks and generalize words to lowercase letters.			
OR				
4 a	(i) Define a string. How it can be traversed through using looping statement. What is string slicing give examples. (ii) Write a python program to determine the presence of sub string in the main string	10	L2,L3	CO2
b	(i) Explain the following operations on tuples (a) Sum of two tuples (b) Slicing operators (c) Comparison of two tuples (d) Assignments to variables (ii) Given <code>txt='username@gmail.com'</code> , how do you separate username and host address in python.	10	L2,L3	CO3
c	Write a python program to print first 10 Bigwords acquired from the file. Note: Bigwords are those words which are repeated maximum number of times in the file.	5	L3	CO3