

Internal Assessment Test 2 –April 2019

Sub:	Python Application Programming	Sub Code:	15CS664	Branch:	CSE		
Date:	20/04/2019	Duration:	90 min's	Max Marks:	50		
		Sem/Sec:	6 th A/B / C		OBE		
<u>Answer any FIVE FULL Questions</u>					MAR KS	CO	RB T
1 (a)	What are lists? Is List mutable? Justify your answer with an example.	[05]		CO3	L2		
(b)	How tuples are created in Python? Explain different of accessing and creating them.	[05]		CO3	L2		
2 (a)	Implement a Python program using Lists to store and display the 'N' integers accepted from the user. Write a function called swap() to swap the first even number of the list with second odd number of the same list.	[05]		CO3	L3		
(b)	Explain Dictionaries. Demonstrate it with a Python program that finds the frequency of letters in a given string.	[05]		CO3	L2		
3 (a)	Write a Python program to search and print for lines in a file that starts with the word 'From' and a character followed by a two digit number between 00 and 99 and then followed by ':'. Assume any input file.	[06]		CO2,C O3	L3		
(b)	Discuss <i>search()</i> and <i>findall()</i> functions of <i>re</i> module with example.	[04]		CO3	L2		
4 (a)	Write a Python program to read all the lines from a file accepted from the user and print all the email addresses contained in it. Assume the email addresses contain only non-white space characters.	[06]		CO2,C O3	L3		
(b)	Write the expected output: 1. <code>>>> a = [1, 2, 3]</code> <code>>>> b = [4, 5, 6]</code> <code>>>> print(a + b)</code> 2. <code>>>>[1,2,3]*3</code> 3. <code>>>>t=['a','b','c','d','e','f']</code> <code>>>> t[:4]</code> 4. <code>>>> t1=(1,2,3)</code> <code>>>> print(t1.append(4))</code>	[04]		CO3	L2		
5 (a)	Create a student class and initialize it with name and roll number. Design methods to: 1. Display () – to display all information of the student. 2.setAge () – to assign age to student. 3.setMarks () – to assign marks to student.	[06]		CO4	L3		
(b)	What is the difference between the 2 ways of converting a string to a list? Explain using the following string. <code>>>>s = "Good Morning"</code>	[04]		CO3	L2		
6 (a)	Suppose "romeo.txt" consists of the text from <i>Romeo and Juliet</i> Act 2, Scene 2. Read the file line by line, print the ten most common words in the text. Make sure to remove punctuations and convert case of word. Use dictionaries, tuples and lists.	[10]		CO2,C O3	L3		
7 (a)	Write a short note on: 1. Parsing lines 2. Object Aliasing	[06]		CO3	L2		
(b)	Explain DSU pattern with respect to tuples. Give example.	[04]		CO3	L2		
8 (a)	Discuss any 5 meta characters used in regular expressions with suitable example.	[05]		CO3	L1		
(b)	What is the need of escape characters in regular expressions? Give suitable code snippet.	[05]		CO3	L2		