125.

K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE - 560109
DEPARTMENT OF ELECRONICS AND COMMUNICATION ENGINEERING
SESSION: 2023-2024 (EVEN SEMESTER)
II SESSIONAL TEST QUESTION PAPER
SET-A

Degree : B.E	USN	
Branch : Electronics and Communication Engineering	Semester : VI 'A' & 'B'	
Course Title : Python Programming	Course Code : 21EC643	
Duration : 60 Minutes	Date : 9/7/2024	
	Max Marks : 20	

Note: Answer ONE full question from each part.

Q No.	Question	Marks	K-Level	CO mapping
PART-A				
1(a)	What is a dictionary? How it is different from List? **Develop** a program to count the number of occurrences of characters in a string.	5	Applying (K3)	CO2
(b)	**Explain** the finding patterns of text without regular expressions with example.	5	Understanding (K2)	CO3
OR				
2(a)	**Construct** a program to demonstrate the use of pretty print function.	5	Applying (K3)	CO2
(b)	**Describe** the following with suitable code snippet: i) Greedy and non-greedy pattern matching ii) findall( ) method of Regex object.	5	Understanding (K2)	CO3
PART-B				
3(a)	**Illustrate** with an example the usage of nested dictionary in python.	5	Applying (K3)	CO2
(b)	**Develop** a python program to accept file name from the user: i) Display the number of characters in the file ii) Find the frequency of occurrence of the lines which started with a word 'From'.	5	Applying (K3)	CO3
OR				
4(a)	**Make use of** python examples to explain the concepts of file open, file close, file read, write and append concepts.	5	Applying (K3)	CO2
(b)	**Build** a python program to extract phone number and email address in the sentence "email ID: kssemece@kssem.edu.in and phone number is: 080-284250" by using regular expression.	5	Applying (K3)	CO3

Course Incharge   HOD   IQAC- Coordinator   Principal

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SET-B

USN										

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Q No.	Question	Marks	K-Level	CO mapping
PART-A				
1(a)	Compare and contrast tuples with lists. **Explain** the following operations in tuples i. Sum of two tuples ii. Slicing operators iii. Comparison of two tuples iv. Assignments to variables	5	Understanding (K2)	CO2
(b)	**Construct** a python program that accepts a sentence and find the number of words, digits, uppercase letters and lower case letters.	5	Applying (K3)	CO3
OR				
2(a)	**Explain** get( ), item( ), keys( ) and values() dictionary methods in python with examples.	5	Understanding (K2)	CO2
(b)	For the following three questions, let's say spam contains the list ['a','b', 'c', 'd',[3,4]]. **Evaluate,** I. spam [int ('3' * 2) / 11] II. spam [-2] III. spam [4][1] IV. spam[-1]	5	Applying (K3)	CO3
PART-B				
3(a)	**Develop** a program to sort a list of words from longest to shortest using DSU pattern.	5	Applying (K3)	CO2
(b)	What is a regular expression? **Explain** the process of finding patterns of text with regular expressions and associated methods in Python with an example.	5	Understanding (K2)	CO3
OR				
4(a)	**Develop** python program snippets to explain, I. Grouping with parentheses II. Matching multiple groups III. Matching one Or more.	5	Applying (K3)	CO2
(b)	**Explain** reading and saving python program variables using shelve module with suitable Python program.	5	Understanding (K2)	CO3

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