Dayananda Sagar College of Engineering
Department of Electronics & Communication Engg.
Continuous Internal Evaluation – II

Course Name : Programming in Python	Date :	11/11/2020
Course Code : 18EC5DEBPP	Day :	Wednesday
Semester : 5	Timings :	1PM
Max Marks : 50 M	Duration :	1½ Hrs.

Q.No		Question Description	Marks	CO & Levels

1	(a)	Find the output of the following code. matrix= [[1,2,3],[4,5,6]]
		v = matrix[0][0]
		for row in range(0, len(matrix)):
		for column in range(0, len(matrix[row])):
		if v < matrix[row][column]:
		v = matrix[row][column]
		print(v)
		i) 3 ii) 5 iii) 6 iv) 33
			1	

	(b)	Which of the following statement is false about the dictionary? i) The values of a dictionary can be accessed using keys. ii) The keys of a dictionary can be accessed using values. iii) Dictionaries are not ordered. iv) Dictionaries are mutable.	1	
	(c)	Consider phone_book = {"Kalpana":7766554433, "Ravi":4499551100}. To delete the key "Kalpana" the code used is i) phone_book.delete("Kalpana":7766554433) ii) phone_book.delete("Kalpana") iii) del phone_book["Kalpana"] iv) del phone_book("Kalpana":7766554433)	1	
	(d)	Tuple unpacking requires i) an equal number of variables on the left side to the number of items in the tuple ii) greater number of variables on the left side to the number of items in the tuple. iii) less number of variables on the left side to the number of items in the tuple. iv) Does not require any variables	1	
	(e)	The function that makes a sequence by aggregating the elements from each of the iterables is i) remove( ) ii) update( ) iii) frozen set( ) iv) zip( )	1	
	(f)	The functionality of seek() function is i) sets the file's current position at the offset ii) sets the file's previous position at the offset iii) sets the file's current position within the file iv) sets the file's current position at the end of file	1	
	(g)	Suppose D={"Ravi:40", "Ram":45}, what happens when we try to retrieve a value using the expression D["Venkat"] i) Since "Venkat" is not a value in the set, Python raises a KeyError exception ii) It is executed fine and no exception is raised, and it returns None iii) Since "Venkat" is not a key in the set, Python raises a KeyError exception iv) Since "Venkat" is not a key in the set, Python raises a syntax error	1	
	(h)	Which of the following is a immutable type? i) sets ii) Lists iii) Tuples iv) Frozen set	1	
	(i)	Which of the following statements is used to create an empty set? i) { } ii) set() iii) [ ] iv) ( )	1	
	(j)	Which of the following is not a valid mode to write in to a file i) a ii) r+ iii) wr+ iv) w	1	

		NOTE: In programs writing comments beside each operation is compulsory. Show the necessary inputs and outputs along with program		
2	a)	A list X is having elements as a sublist consisting of students name first element and USN as second element. Write a python program to sort the list according to the second element in sublist.	5	
	b)	Compare list, tuple, sets and Dictionaries	5	
3	a)	Write a Python program to read a text file, count the total no of numbers (digits) present in the file and print all the numbers present in the file.	5	
	b)	Write a program that prompts the user to enter a text file, reads words from the file, and displays all the non-duplicate words in ascending order.	5	
4	a)	Write a Python program to accept Students USN and marks obtained as 2 separate list, store them as a dictionary and print the result.	5	
	b)	Write a program to illustrate the use of an intersection, set difference, and symmetric difference of sets.	5	
		OR		
5		Write a python program to compute a polynomial equation of order 2 whose coefficients are stored as a list.(Necessary modules can be imported)	10	
6	a)	Write a Python program to prepare name list of the class having USN, name and section, store in a file and print it using regular expression	5	
	b)	Write a python program to convert the date in a verbose format, like November 12, 2020, to an abbreviated format, mm/dd/yy (with no leading zeroes) using regular expression.	5	
		OR		
7	a)	Write a python program to find the second smallest word present in a file. Prompt the user to enter the filename	5	
	b)	Write a python program that reads the contents of the file and counts the occurrences of letter. Prompt the user to enter the filename and letter to be searched.	5	