		VFSTR		
		Course Name: B.Tech, Branch Name: cse, Year: 3, Semester: 1,Subject Code: 16CS448, Subject Name: Python Programming, Mid No: 2 (Only Approved Questions)		
Sl.No	**Q.Id**	**Question**	**Marks**	**Unit**
1	284793	List sequence data structures supported by python.	1	3
2	284794	Write the python statement to create an empty list.	1	3
3	284795	Suppose list1 is [2445,133,12454,123], what is max(list1) ?	1	3
4	284796	Write a command to get the sum of all the elements of a list.	1	3
5	284797	Suppose list1 is [2, 33, 222, 14, 25], What is list1[-1] ?	1	3
6	284798	What are the possible values for indexing a list?	1	3
7	284799	What is the output when following code is executed ? >>>names =['Amir', 'Bear', 'Charlton', 'Daman'] >>>print(names[-1][-1])	1	3
8	284800	Which command is used to add a new element to a list?	1	3
9	284801	How do you search a given value in the list?, write the python statement	1	3
10	284802	What are the advantages of the tuple data structure?	1	3
11	284803	What will be the output of the following? >>>t=(1,2,4,3) >>>t[1:3]	1	3
12	284804	What will be the outputof the following? >>>t =(1, 2) >>>2* t	1	3
13	284805	What will be the outputof the following? >>>my_tuple=(1, 2, 3, 4) >>>my_tuple.append((5, 6, 7)) >>>print len(my_tuple)	1	3
14	284806	>>>a=10 >>>b = 20 Write a single line statement to swap the values of a and b.	1	3
15	284807	>>>a=[(1,1),(2,4),(3,9)] What is the data type of a?	1	3
16	284808	Is the following line of code valid? >>>a,b=1,2,3	1	3
17	284809	What is the output of the following code? >>>a,b=6,7 >>>a,b=b,a >>>a,b	1	3
18	284810	Is the following piece of code valid? >>> a=2,3,4,5 >>>a	1	3
19	284811	What is the output of the following piece of code? >>> a=[2,3,1,5] >>>a.sort() >>>a	1	3
20	284812	What is the output of the following piece of code? >>> a=(2,3,1,5) >>>a.sort() >>>a	1	3
21	284813	Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.reverse() ?	1	3

22	284817	What is the output when following code is executed ?
		```>>>list1 =[1, 3]```
		```>>>list2 = list1```
		```>>>list1[0]=4```
		```>>>print(list2)```
			1	3

23	284818	What is a dictionary?	1	3
24	284819	Write a statement to create an empty dictionary.	1	3
25	284820	Write a statement to create an empty set.	1	3
26	284821	Write a statement to create a tuple with single element.	1	3
27	284822	Suppose d = {"john":40, "peter":45}, to delete the entry for "john" what command do we use?	1	3
28	284823	Suppose d = {"john":40, "peter":45}. To obtain the number of entries in dictionary which command do we use?	1	3

29	284824	What will be the output?
		```>>>d ={"john":40,"peter":45}```
		```>>>print(list(d.keys()))```
			1	3

30	284826	What is the output of the following piece of code?
		```>>>a={1:"A",2:"B",3:"C"}```
		```>>>print(a.get(1,4))```
			1	3

31	284827	What is the output of the following code?
		```>>>a={1:"A",2:"B",3:"C"}```
		```>>>print(a.get(5,4))```
			1	3

32	284828	What is the output of the following code?
		```>>>a={1:5,2:3,3:4}```
		```>>>a.pop(3)```
		```>>>print(a)```
			1	3

33	284829	Create a dictionary for student information which includesstno, stname, stm1, stm2, stm3, stm4, stm5 and address.	1	3
34	284830	Write the python statement to delete the item from the dictionary	1	3

35	284831	```student={1:{'Name':{'First_Name':'Scott','Last_Name':'Tiger'},'passper':89.96,'address':'TEL'}}```
		```len(student)```
		What is the output of the above python code?
			1	3

36	284832	Write the set data structure operations.	1	3
37	284833	Write the set data structure membership operations.	1	3

38	284834	What is the output of below python code:
		```evens={2,4,6,8,10,12,14,16,18,20,22,24}```
		```odds={1,3,5,7,9,11,13,15,17,19,21,23}```
		```numbers=odds.union(evens)```
		```print(odds.issubset(numbers))```
			1	3

39	284835	What is the output of below python code:
		```a=[2, 4, 6, 8, 10]```
		```print([x for x in a])```
		```print([x+x for x in a])```
			1	3

40	284836	What is the output of below python code:
		```a = range(10)```
		```print([x for x in a if x % 2 == 0])```
			1	3

41	284837	What is the output of below python code: ```zip([1, 2, 3], ['a', 'b', 'c'])```	1	3
42	284838	What is aliasing in python?	1	3

43	286568	What is the keyword used to define the function?	1	4
44	286571	Write the syntax of the function definition	1	4
45	286573	What is recursion?	1	4
46	286593	Give the example function definition for positional arguments	1	4
47	286603	What is the use of * and ** before the parameter in the function definition?	1	4
48	286608	Write the recursion function to print the first n natural numbers	1	4
49	286618	What is the difference between local and global variables?	1	4
50	286621	What is anonymous function?	1	4
51	286622	Design a function that returns maximum of two given numbers passed as parameters.	1	4
52	286624	Give the example function definition for keyword arguments	1	4
53	286628	What is the output of the functions shown below? >>>min(max(False,-3,-4),2,7)	1	4
54	286913	Suppose list is [3, 4, 5, 20, 5, 25, 1, 3], what is list after list.extend([34, 5])	1	3
55	286920	Suppose list is [3, 4, 5, 20, 5, 25, 1, 3], what is list after list.pop(1) ?	1	3
56	286922	Suppose list is [3, 4, 5, 20, 5, 25, 1, 3], what is list after list.pop()?	1	3
57	286923	What is the output of the following code? >>>a={1:"A",2:"B",3:"C"} >>>for i, j in a.items(): print(i,j,end=" ")	1	3
58	284839	Explain the following concepts related to dictionary data structure i. Creating dictionary ii. Adding values to dictionary iii. Dictionary Methods iv. Aliasing and Copying	10	3
59	284840	Explain the following concepts related to set data structure i. Creating a set ii. Removing items from the set iii. Set Operations iv. Set's Membership Operations	10	3
60	284841	a)Explain the following concepts related to list data structure i. Creating list ii. Slicing a list b)Write a program to read 'n' list of values and find the maximum without using built-in max() function.	10	3
61	284842	a) Explain List comprehension with suitable example code. b) Write a program to find the average of square root of first n natural numbers using list comprehension	10	3
62	284843	Create a list x with the elements [10, 50, 20, 40, 5, 6, 30] and write python code to perform the following operations (in the same order) on the list: i) Insert element 100 at the beginning. ii) Insert element 8 at the end. iii) Insert element 70 at the index position 3. iv) Delete first element. v) Delete last element. vi) Delete element at the index 3. vii) Find sum of all the elements of the list. viii) Sort the list ix) Replace the element at index 3 with 90. x) Remove all the elements.	10	3

63	286637	a) Explain the following ways of passing formal arguments in python using suitable example programs: i. positional arguments ii. keyword arguments b) Design a function "is_prime(n)" to check the given number is prime or not.	10	4
64	286645	a)Explain the following ways of passing formal arguments in python using suitable example programs: i. default arguments ii. variable-lengtharguments. b) Design a function "fact(n)" to return the factorial of given number.	10	4
65	286647	a) Explain the scope of a variables with suitable example b)Design and develop a function for income tax calculator c) Design a recursive function "Fibonacci(n)" to return n^{th} number in Fibonacci series.	10	4