VASAVI COLLEGE OF ENGINEERING *(AUTONOMOUS)*, HYDERABAD
Accredited by NAAC with A++ Grade
B.E. III-Semester Main Examinations, Jan./Feb.-2024
Computing Using Python (OE-I)

Time: **3 hours**   Max. Marks: **60**

*Note: Answer all questions from **Part-A** and any **FIVE** from **Part-B***
Part-A (10 × 2 = 20 Marks)

Q. No.	Stem of the question	M	L	CO	PO
1.	Write syntax of if-else statement in python with suitable example.	2	2	1	1
2.	List any two features of python language.	2	1	1	1
3.	What is the difference between find () and index () method in lists.	2	2	2	1
4.	How to create a single element in tuple?	2	1	2	1
5.	What is the difference between lists and sets in python?	2	1	3	1
6.	List any two methods in dictionary with suitable example	2	2	3	1
7.	How to create a private variable in class in python.	2	1	4	1
8.	Write down the syntax of open() function in files in python	2	2	4	1
9.	Write a python code to swap two numbers without using third variable.	2	2	1	1
10.	How range () function works, explain with suitable example?	2	2	2	1
	Part-B (5 × 8 = 40 Marks)				
11. a)	What is the significance of break, continue and pass statement in python.	4	1	1	1
b)	Write a program in python to find factorial of number 'N' using recursive function.	4	3	1	2
12. a)	Using slicing perform following operations on string i) Reverse of string ii) Swap First and Last character in a string iii) Display every alternative charter in a string. iv) Display every 3rd character in a string	4	3	2	2
b)	Write a python program to create a list of N elements and calculate sum of odd numbers and sum of all even numbers in it.	4	3	2	2

			M	L	CO	PO
13.	a)	What is the output of following code : S1={1,2,3,4,5,6,7} S2={4,5,6,7,8,9,10} print(s1|s2) print(s1&s2) print(s1-s2) print(s1.symmetric_difference(s2)) s1.add(15) s2.remove(4) print(s1|s2) print(s1&s2) print(s1-s2) print(s1.symmetric_difference(s2))	4	3	3	2
	b)	Generate the following output in dictionary using comprehensive Output = { 'A": 65, 'B' : 66, 'C' :67, …………'Z' : 90 }	4	3	3	2
14.	a)	Explain various methods present in files with example.	4	2	4	1
	b)	Write a code, class that has a list of integers as data members and read ( ), display ( ), find-largest ( ), find-smallest ( ), sum ( ), and find-mean ( ) as its member functions.	4	4	4	2
15.	a)	Explain while and for loop with suitable example.	4	1	1	1
	b)	Explain methods and functions present in string in python programming.	4	2	2	1
16.	a)	Write a program to create a set of prime number from a list consisting of elements from 1 to N.	4	3	3	2
	b)	Explain the various functions present in PICKLE and JSON.	4	2	4	1
		Answer any *two* of the following:				
17.	a)	Explain comparison operator and logical operator with python code.	4	2	1	1
	b)	Write python code to find maximum element in a list.	4	3	2	2
	c)	Explain different types of inheritance present in python programming with block diagram.	4	2	3	1

M : Marks;   L: Bloom's Taxonomy Level;   CO; Course Outcome;   PO: Programme Outcome

i)	Blooms Taxonomy Level – 1	20%
ii)	Blooms Taxonomy Level – 2	40%
iii)	Blooms Taxonomy Level – 3 & 4	40%

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