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Code No. : 13165 N (F)

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	4	3	2	2
	i) Reverse of string				
	ii) Swap First and Last character in a string				
	iii) Display every alternative character in a string.				
	iv) Display every 3 rd character in a string				
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

Contd... 2

13. a)	<p>What is the output of following code :</p> <pre>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))</pre>	<p>4 3 3 2</p>
b)	<p>Generate the following output in dictionary using comprehensive</p> <p>Output = { 'A': 65, 'B' : 66, 'C' :67, 'Z' : 90 }</p>	<p>4 3 3 2</p>
14. a)	<p>Explain various methods present in files with example.</p>	<p>4 2 4 1</p>
b)	<p>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.</p>	<p>4 4 4 2</p>
15. a)	<p>Explain while and for loop with suitable example.</p>	<p>4 1 1 1</p>
b)	<p>Explain methods and functions present in string in python programming.</p>	<p>4 2 2 1</p>
16. a)	<p>Write a program to create a set of prime number from a list consisting of elements from 1 to N.</p>	<p>4 3 3 2</p>
b)	<p>Explain the various functions present in PICKLE and JSON.</p> <p>Answer any <i>two</i> of the following:</p>	<p>4 2 4 1</p>
17. a)	<p>Explain comparison operator and logical operator with python code.</p>	<p>4 2 1 1</p>
b)	<p>Write python code to find maximum element in a list.</p>	<p>4 3 2 2</p>
c)	<p>Explain different types of inheritance present in python programming with block diagram.</p>	<p>4 2 3 1</p>

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%
