Hall Ticket Number:

Code No. : 13165 N (B)

VASAVI COLLEGE OF ENGINEERING (AUTONOMOUS), HYDERABAD

Accredited by NAAC with A++ Grade

B.E. III-Semester Main Examinations, Jan./Feb.-2024

Introduction to Python Programming (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)
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Q. No.	Ste	m of the q	uestion	Μ	L	CO	PO
1.	Define variable. How can we	assign sam	e value to multiple variables?	2	1	1	1,2
2.	Write a python program to fin	n to find remainder and quotient of two numbers.				1	1,2,3
3.	Write the output for the following code snippet: def addition(a,b=10): print(a+b)				3	2	1,2
	addition(2,5) addition(10)						
4.	Define recursion in python wi	th example	2.	2	1	2	1,2
5.	Illustrate string slicing with example.		2	1	3	1,2	
6.	Explain list membership in py	thon with	an example.	2	2	3	1,2
7.	Illustrate a tuple with index(),	count() m	ethods.	2	1	4	1,2
8.	Write the output for the following code snippet: $d = \{'x': 1, 'y': 2, 'z': 3\}$		2	3	4	1,2	
	<pre>print(d.items()) print(d.values())</pre>						
9.	Write a python program to check if input value is positive or negative number.		. 2	3	1	1,2,3	
10.	Illustrate mathematical function	ons in pyth	on with an example.	2	2	2	1,2,3
	Part-1	$B(5 \times 8 =$	40 Marks)	a su a			
11. a)	What is an operator? Classify with an example.	the logica	l operators and its implementation	4	1	1	1,2
b)	A College has following rules	s for gradir	ng system:	·4	4	1	1,2,3
	Percentage (%) of marks	Grade					
	> 80%	А	orthers and its implication devices				
	61% to 80%	В	subsect web Co, concerned and	a i sho			
	41% to 60%	С	Large anteriore and				
	<= 40%	Fail					

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12. a) Show with an example how the parameters and arguments are being passed to the function in python.	4	1	2	1,2
b) Differentiate type conversion and coercion in python with an example.	4	2	2	1,2
13. a) Why strings are immutable in python. Consider the string "hello". Replace "l" with "p". Check whether it is modifying the original string or not.	4	3	3	1,2
b) Write a Python program to display the elements at alternative positions in the list.	4	2	3	
14. a) Define and implement tuple assignment in python.	4	2	4	1,2
b) Write a Python program to count the number of characters (character frequency) in a string. Sample Example college	4	4	4	1,2,3
$\{'c': 1, 'o': 1, 'l': 2, 'e': 2, 'g': 1\}$				
15. a) Show the implementation of while statement in python.	4	2	1	1,2
b) Write a Python program to calculate the factorial of a given number using recursion.	4	4	2	1,2,3
 16. a) Write a Python script that takes the input string from the user and then display the output in uppercase and lowercase. Sample Example Enter the String = Python Uppercase = PYTHON 	4	3	3	1,2
Lowercase = python				
b) Write a Python program to create a dictionary with 3 elements and remove the last element from the dictionary.	4	3	4	1,2
17. Answer any <i>two</i> of the following:				
a) Write a Python program to print sum of odd numbers between 1 to 100 numbers.	4	3	1	1,2,3
b) What is a function and list its advantages. With the help of an example define a function and function calls.	4	2	2	1,2
c) Classify list operations in python and its implementation.	4	3	3	1,2
M : Marks; L: Bloom's Taxonomy Level; CO; Course Outcome; PO: Pro	gramm	e Outco	me	
i)Blooms Taxonomy Level - 120%ii)Blooms Taxonomy Level - 232.5%iii)Blooms Taxonomy Level - 3 & 447.5%				

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