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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V (NEW) EXAMINATION - SUMMER 2024

Subject Code: 3151108 Date:1

Subject Name: Python Programming

d Marks:70
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Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. Simple and non-programmable scientific calculators are allowed.

	-	• 0	MARKS
Q.1	(a)	Differentiate list and tuples.	03
	(b)	Develop python program to print even numbers in a list.	04
	(c)	Explain and categorize operators in python.	07
Q.2	(a)	Explain dictionary in detail.	03
	(b)	Develop python program to count occurrences of an element in a list	04
	(c)	Explain various features of a plot in python. OR	07
	(c)	<u> </u>	07
Q.3	(a)	Explain for loop in detail.	03
•	(b)	-	04
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	(c)	Make use of if, ifelse, ifelifelse and , nested if. OR	07
Q.3	(a)	Explain while loop in detail.	03
	(b)	-	04
	(c)	Explain working of break, continue and pass statement.	07
Q.4	(a)	Differentiate actual and formal arguments.	03
•	(b)	Develop python program to display fibonacci sequence	04
	. /	using recursion method.	
	(c)	Develop python program that convert decimal to binary, decimal to octal and decimal to hexadecimal number using user define function.	07

OR

Q.4	(a)	Define SCOPE, Discuss global and local variable in detail.	03
	(b)	Define Lambda function, Utilize lambda function in an example.	04
	(c)	Develop python program to find maximum, minimum and average of given numbers using user define function.	07
Q.5	(a)	Define micropython, explain feature of micropython.	03
	(b)	Develop python program that read and print first n lines from existing file also create new file that have first n	04
		lines from the existing file.	
	(c)	Explain Exceptional handling in detail	07
		OR	
Q.5	(a)	Enlist mode of file in python.	03
	(b)	Develop program in micropython to send digital data on GPIO pin of micropython supported board and blink LED connected to it.	04
	(c)		07
