GUJARAT TECHNOLOGICAL UNIVERSITY
B.VOC - SEMESTER– IV EXAMINATION – SUMMER 2024

Subject Code: 1140503   **Date:20-05-2024**

Subject Name: Python Programming

Time:10:30 AM TO 12:30 PM   **Total Marks:50**

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.**

			Marks
Q.1	**(a)**	Describe Python operators. Explain types of operators with examples.	**05**
	(b)	Differentiate C and Python programming language.	**05**
Q.2	**(a)**	What is set? Explain different operations on set ?	**05**
	(b)	Write a Python Program to find the area of a circle.	**05**
		OR	
	(b)	Write a Python Program for factorial of a number.	**05**
Q.3	**(a)**	Explain different conditional statements used in Python with examples.	**05**
	(b)	Compare global variables and local variables in Python functions. Provide examples to illustrate your points.	**05**
		OR	
Q.3	**(a)**	Explain different looping constructs used in Python with examples.	**05**
	(b)	Describe the purpose of the datetime module in Python. Explain any two date and time functions with example.	**05**
Q.4	**(a)**	Define List. Explain any three list operations	**05**
	(b)	Write a python program to generate random numbers.	**05**
		OR	
Q.4	**(a)**	Define Tuple. Explain any three tuple operations	**05**
	(b)	Explain any three mathematical functions from the math module.	**05**
Q.5	**(a)**	"Strings are immutable."-Justify the statement with suitable examples.	**05**
	(b)	Explain following file handling functions 1) read, 2) readline, 3) readlines	**05**
		OR	
Q.5	**(a)**	Explain following string operations. 1) islower 2) max 3) lstrip 4) count 5) rfind	**05**
	(b)	Explain following file handling functions 1) write, 2) append, 3) writelines	**05**

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