Date: 17/01/2023

## VPMP POLYTECHNIC, GANDHINAGAR DEPARTMENT OF COMPUTER ENGINEERING

## **DE – SEMESTER 3 MID EXAMINATION- PHASE 2**

Subject Code: 4330701

	Tin	bject Name: Scripting Language – Python ne: 9:30 TO 12:00 PM Total Marks: 70 cructions:  1. Attempt all questions.	
		<ol> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>	
Q.1	(a)	Explain keyword, identifier and variable.	03
	<b>(b)</b>	Explain Input and Output statements in Python by giving examples.	04
	(c)	Explain break, continue and pass statement with flowchart, syntax and example.	07
		OR	
	(c)	List out operators. Explain membership operators and assignment operators.	07
Q.2	(a)	Explain for loop with flowchart, syntax and example.	03
	<b>(b)</b>	Explain switch case statement with flowchart, syntax and example.	04
	(c)	Write Characteristics of Set and Explain mathematical operations on Set.(Union,Intersection,difference and symmetric difference)  OR	07
Q.2	(a)	How to create a list. Explain append(),extend(),insert() and delete operations on list.	03
	<b>(b)</b>	Write Characteristics of Tuple. Explain indexing and slicing in tuple.	04
	(c)	List selection statements and Explain any two python selection statements with flowchart, syntax and example.	07
Q.3	(a)	List out methods of random module. Explain any three with example.	03
	<b>(b)</b>	Create a user defined module with simple functions for: addition, subtraction, multiplication, division. Write a program to import the module and access functions defined in the module.	04
	(c)	Write Characteristics of Dictionary. Explain any four operations on dictionary.	07
		OR	
Q.3	(a)	List out Formatting function and explain any two.	03
	<b>(b)</b>	What are modules in Python? Explain any two math modules.	04
	<b>(c)</b>	Explain main classes of Date and Time module with one Example.	07
Q.4	(a)	Explain add(),update(),remove() and discard() methods of set.	03
	<b>(b)</b>	Explain datatypes with example.	04
	(c)	Explain following function with example: isalnum(), isalpha (), isdigit(), isidentifier (), islower(), isupper(), and isspace()  OR	07

Q.4	(a)	List and explain features of Python.	03
	<b>(b)</b>	Create a user defined function which prints square of all the even numbers between 1 to 5.	04
	(c)	List out types of plots in Matplotlib. Explain any one with example. And Write down steps for PIP Installation.	07
Q.5	(a)	Python program to calculate the number of digits and letters in a string.	03
	<b>(b)</b>	Explain read(),readline() and readlines () for file with example.	04
	(c)	What is package? How to Create and import package. Explain with example.	07
		OR	
Q.5	(a)	Write a program to display following output.  1	03
	<i>a</i>	1 2 3 4 5	
	<b>(b)</b>	Explain write(),append() and writelines () for file with example.	04
	<b>(c)</b>	Explain string searching functions with syntax and example.	07