Total	No. o	of Questions : 8] SEAT No. :						
P49	37	[Total No. of Pages : 3						
		[5667] 1008						
F.E. (Semester - I)								
PROGRAMMING & PROBLEM SOLVING								
(2019 Pattern)								
Time: 3 Hours] [Max. Marks:								
		ons to the candidates:						
	1)	Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.						
	<i>2</i>)	Neat diagrams must be drawn wherever necessary.						
	<i>3</i>)	Assume suitable data wherever necessary.						
<i>Q1</i>)	a)	What is function? Explain code reuse. Explain with example Docstring.						
		[6]						
	b) \(\)	Explain Lambda function with example. [6]						
	c)	Write python program using function to find greatest of three numbers						
		by passing numbers as argument. [6]						
		OR						
<i>Q</i> 2)	a)	Differentiate between Local & Global variable. Write a python program to demonstrate difference between local and global variable. [6]						
	b)	Explain keyword arguments in python. Write a python program to						
	U)	demonstrate keyword arguments. [6]						
	c)	Write python program using function to find whether number is odd or						
		Write python program using function to find whether number is odd or even. [6] Explain following string methods with example. [6] i) Rindex ii) Z fill iii) Split						
Q3)	a)	Explain following string methods with example. [6]						
		i) Rindex						
		ii) Zfill						
		iii) Split						
	b)	Write a python program to display tables from 1 to 10 using formatting						
		character. [6]						
		P.T.O.						
		Α						

	c)	What will be the output of following statement $S =$ "Welcome to Pytho	
			[5]
		ii) Print (s[:6])	
		iii) Print (s[4:]) iv) Print (s[1: •])	
		v) Print (s[11]) v) Print ("Come" not in str)	
		OR	
Q4)	a)		[6]
		i) Join	
		ii) Enumerate	
		iii) 1 strip	
	b)	Write python, program to find whether a given character is present i	n a
	,	string or not. In case it is present print the index at which it is present.	
	,		[6]
	c)	Write a python program to check whether a given string starts w specified character.	
		specified character.	[5]
<i>Q5</i>)	a)	Define programming paradigm. List programming paradigms. Expl any one.	ain [6]
	b)		[6]
	,		۲
	c)	Write a python program that uses class to store exam number and ma of four subjects. Use list to store the marks of four subjects.	rks [6]
		OR OR	
00			r / 1
Q6)	a)		[6]
		i) Data Abstraction & Encapsulation	
		ii) Polymorphism	
	b)	With the help of an example explain the significance of the inif () meth-	od.
			[6]
	c)	Write a python program to create class car with two attributes name	
		cost. Create two objects and display information.	[6]
		1000	

<i>Q7</i>)	a)	Write a python program that reads data from one file and write another file and line by line.	into [6]
	b)	What is directory? List any four directory methods and explain any of them.	two [6]
	c)	Why do we need files? Explain relative and absolute path in files. OR	[5]
<i>Q8</i>)	a)	Write a python program that counts the number of tabs and new characters in a file.	line [6]
	b)	Write a python program to display current directory, create direct and remove created directory.	tory [6]
	c)	Differentiate between text and binary files. Explain any 4 access mo	odes
		used in python.	[5]
[5 66		weed in python. ***********************************	
[566	7]-10	3	