Total No	o. of Questions : 8] SEAT No. :									
PB35	[6260] [Total No. of Pages : 3									
	F.E.									
PROGRAMMING AND PROBLEM SOLVING										
((2019 Pattern) (Credit System) (Semester - I/II) (110005)									
	2½ Hours] [Max. Marks : 70									
	tions 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.									
2)	Neat diagrams must be drawn weherver necessary.									
3)	Assume suitable data wherever necessary.									
Q1) a)	Write a short note on modules and package in python [6]									
b)	Explain how we can pass command line arguments in python with a									
,	suitable example. [6]									
c)	Write a program to check whether a number is Armstrong number or not									
,	using a function. [5]									
	OR O									
Q2) a)	Write syntax of function definition and function call. Give a suitable									
Q2) a)	example for the same. [6]									
b)										
0)	i) variable length arguments									
	ii) default arguments									
c)										
	number is even and 'odd' if number is odd.									
	9.1									
Q3) a)	Explain the following string operations with examples. [6]									
E-) u)	i) concertanction									

- i) concatenation
- ii) appending
- iii) string multiplication
- b) Explain string formatting operator with suitable example. [6]
- c) Write a program that finds whether a given character is present in a string or not. In case it is present it prints the index in which it is present. Do not use built-in find functions to search it. [5]

OR

Q4)	(4) a) Explain string module in python.						
b) Explain following string methods with example.							
		i) split()					
		ii) zfill()					
		iii) replace()					
c) Write a program to reverse a string without using slicing oper							
Q 5)	a)	Explain the following programming Paradigms in detail.	[6]				
	i) Procedural						
		ii) Structured					
		iii) Object Oriented					
	b)	Differentiate between class variable and object variable.	[6]				
	c)	Write a program to create a class 'Book' with members, title, aut	-				
		publisher, and ISBN number. The functions of the class should read display the data.	and [6]				
	V	OR OR	[°]				
Q6)	a)	Explain the following features of OOP	[6]				
~	,	i) Classes and Objects					
		ii) Methods and Message Passing	/				
		iii) Inheritance	5				
b) Explain class methods with suitable example.c) Write a program to calculate area of square and rectangle using a							
Q7)	\	WT C1 0 T 1 1 1 1 CC A A A A					
b) Explain the following file handling methods.							
	a) b)	What is a file? Explain different Access Modes. Explain the following file handling methods.	[6] [6]				
	a) b)	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1					
C	a) b)	Explain the following file handling methods.					
Ċ	a) b)	Explain the following file handling methods. i) seek()					
Č	a) b)	Explain the following file handling methods. i) seek() ii) writelines() iii) readline() Write a program that reads text from a file and writes in into another	[6]				
C	b)	Explain the following file handling methods. i) seek() ii) writelines() iii) readline()	[6]				

OR

Q8)	a)	Explain the following method with suitable example [6]						
		i)	getcwd()		r			
		ii)	rmtree()	,0				
		iii)	makedirs()					
	b)	Wha	at is a file path? Explain abso	olute path and relative path.	[6]			
	c)	Exp	lain the following dictionary	methods.	[6]			
		i)	fromkeys()	0 9				
		ii)	setdefault()					
		iii)	update()	Stail S. S.				
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