Total N	lo. o	f Que	estions: 9]	30	SEAT No.:			
P699	5				[Total No. of Pages : 4			
			[5868]-1	<b>07</b>				
	F.E. (Semester - I & II)							
110	110005: PROGRAMMING AND PROBLEM SOLVING							
	(2019 Pattern) (Common)							
Time ·	Time: 2½ Hours] [Max. Marks: 70							
			the candidates:		[max.marks.70			
1,			stion one is compulsory.					
2	)	Solv	e Q2 or Q3, Q4 or Q5, Q6 or Q7,	Q8 o	or Q9.			
3	)	Neat	diagrams must be wherever ne	cessa	ury.			
4	)	Assu	me suitable data wherever nece	ssary	v.			
		0			68			
01)	:\		) -1		Carlling Carting			
<i>Q1</i> ) i	i)	wnı	ch one of the following is the	corr	ect way of calling a function?			
	V	a)	f_name()	b) (	call f_name()			
		c)	return f_name()	<b>e</b> )	function f_name()			
i	ii)	Wha	at is the correct file extension	for P	Python files?			
		a)	.pt	b)	.pyt	20		
		c)	.py	d)	.cpp			
i	iii)	Whi	ch function is used to convert	a nu	imeric value to a character			
		a)	ord()	b)	chr()			
		c)	input()	d)	output()			
$\sim$	iv)	Whi	ch is the default access mode	in t	the open () function for files in			
	,		non?					
		a)	W	b)	r			
		ŕ			4			
		c)	a	d)				
,	v)	Whi	ch method can be used to retu	ırn a	string in upper case letters?			
		a)	toupper()	b)	upper()			
		c)	uppercase()	d)	touppercase()			
				× .,	<i>P.T.O.</i>			

	vi)	Whi crea		tically exec	ited wh	nen an object of a class	is
		a)	_init_()	b)	_call	_()	
		c)	_repr_()	(b) d)	_del	_()	
	vii)	You	can use Python for	2.			
		a)	Application program	nming b)	Web	programming	
		c)	Artificial intelligence	e d)	All c	of these	
	viii)Which of the following keyword is used in user defined function header in Python?						
		a)	define	b)	def	3	
		c)	function	d)	fun		
	ix)	Wha	nt does open() function	on return?		630	
		a)	function	b)	varia	ble	
		c)	file object	(d)	none	of these	
	x)	Whi	ch of the following is	s the correct	way of	closing a file?	
		a)	close(file)	(R)	close	e("file")	
		c)	file.closed()	d)	file.c	close()	
			(00)	30			
<i>Q</i> 2)	a)		ine a function. Explanble example.	in function	definitio	on and function call wi	th 6]
	b)	Wha	nt is a lambda functio	n? Explain	with a s	suitable example. [	5]
	c)	Wha	at are the good Pytho	n programn	ning pra	ectices [4	<b>4</b> ]
				OR			
<i>Q3</i> )	a)	Exp	lain the following typ	pes of functi	on argu	ments with examples:[0	6]
		i)	Required arguments		S		
		ii)	Keyword arguments	8		6	
	b)		at do you mean by l nple.	local and gl	obal va	iriables? Explain it wi	th <b>5</b> ]
	c)	Wri	te a program to swap	two number	rsusing	g a function.	<b>4</b> ]
F-0.40	)1 1 <i>0</i>	7		2 8.	7		

<i>Q4</i> )	a)	Explain the following string operations with suitable example.	[6]		
		i) Concatenation			
		ii) Appending			
		iii) String repetition			
	b)	Explain indexing and slicing operation on string with suitable exam	_		
			[5]		
	c)	Write a program to count the number of characters and words in given string.	the [4]		
		s = "Welcome to the world of python programming"			
		OR			
05)	۵)	Even following string mathods with system is	[7]		
<i>Q5</i> )	a)	Explain following string methods with example.	[6]		
		i) strip()			
		ii) index()			
		iii) isdigit()			
	b)	What is a string? Explain with example iterating strings.	[5]		
	c)	Explain ord() and chr() functions with suitable examples.	[4]		
			. J		
<b>Q6</b> )	a)	Explain any three programming paradigms.	[6]		
20)		26.			
	b)	Define a class in Python. Explain_init_() method with suitable example.  [5]			
	c)	,			
	<b>C</b> )		[4]		
		OR			
<i>Q7</i> )	a)	Explain the following features of Object Oriented Programming.	[6]		
		i) Data encapsulation			
		ii) Data abstration			
		iii) Polymorphism			
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	b)	Explain class variables and object variable with suitable example. [	5]		
	c)	Write a program to create a class 'Employee' with two attrib Display the details of two employees.			
Q8)	a)	What is a file? Explain different access modes for opening files. [6]			
	b)	What is a dictionary? How to create, access and modify dictionary elements. [5]			
	c)	Explain relative and absolute path of a file.	4]		
		OR			
<b>Q9</b> )	a)	Explain any three methods for reading and writing files.	6]		
	b)	Explain different directory methods with suitable examples.	5]		
	c)	Write a program to read first 10 characters from the file and display	it. <b>4</b> ]		
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[5868	<b>3]-1</b> 0	<b>4</b> ♥′			