Q.P. Code: 756001

			(2½ Hours)	,	[Total Marks : 75	
N.B. :	 (1) All the questions are compulsory. (2) Figures to the right indicate full marks. (3) Illustrations, in-depth answers and diagrams will be appreciated. (4) Mixing of sub-questions is not allowed. (5) Assume suitable data wherever required. 					
1 Atte		1 (Each of 5 M				
(a)	•	ole choice quest	70, 4, P, VS V, OL	10 P		
(u)	rators.					
	(1)	and, or, not (i) Arithmetic	20 0 0 0 0 0 0 0	00 TAY	Logical	
		ii) Relational		iv)	1 X 3 V C C C C C C C C C C C C C C C C C C	
	(2)	What is the	output of len([1, 2, 3])	2		
	, ,	(i) 1 8 2 2 2	1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ii)		
	(ii	7.0.8		iv)	8 3, 8, 4 0, 0,	
	(3)	40,0,6,4	lefined inside the fun	ctio	n is called	
		variable.				
	7.7	(i) Local	2,4,6,4,7,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	ii)	Global	
	(1) (3)	ii) Block	\$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	iv)	Identifier	
	(4)	Which of the	following function co	nve	rts a string to all uppercase?	
Ś	3000	i) upper ()		(ii)	isdecimal ()	
25.00	i (i	ii) Swapcase (iv)	title ()	
20 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(5)	What is the c	output of the following	?		
ST DO	15 P. D. D.	k = [print (i)	for i in my_string if i i	n "a	eiou"]	
20 20 20	- 600 M	(i) prints all th	ne vowels in my_string			
2000	3276	C. V. #O ' A D' V. '.'	ne consonants in my_stri	_		
	3 3 (i	8, 4 gr V, 10, 4 y	naracters of my_string the	hat a	aren't vowels	
	(1	v) None of th	ese			

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(t) Fill	in the blanks.					
	(1) &&, , ^ are operators					
	(2	arithmetic operator (%) is used for					
	(3	3) Statement terminates the loop statement and transfers					
		execution to the statement immediately following the loop.	2 OF 2				
	(4	To use sqrt () function we need to import module.	5.00				
	(5	An instance of a class is called as	£,				
(0) Sho	rt answers:					
	(1) What is the use of del statement?					
	(2	2) Define Assignment statement.					
	(3	Write syntax to create a List.					
	(4	·) List any four methods of List.					
	(5	Explain the use of "Pass" statement.					
2. A	nswer a	ny three from the following: (Each of 5Marks)	15				
	(a)	Write a short note on IDLE.					
	(b)	Discuss Operator Precedence along with an example.					
	(c)	What is variable? What are the rules and conventions for declaring a variable?					
	(d)	What is the difference between simple and expression statements?					
	(e)	Explain "string" data types in regards with following:					
	<	(i) Declaration and initialization of variable of "string" data type					
	E S	(ii) Displaying second character of a string.					
		(iii) Display all characters of a string.					
	07 7 B 2	(iv) Display all characters starting from second position in a string.(v) Repeat string twice and display it.					
\$	(f)	Write a program to calculate area of rectangle and circle. Take input from					
Digital States		the user.					
Y O'S	THE TO						
3. A	nswer a	ny three from the following: (Each of 5Marks)	15				
	(a)	How do we implement if-elif condition? explain with example.					
	(b)	Explain continue statement.					
	- (c)	Discuss the difference between local and global variable.					
	(d)	What is actual and formal parameter in user defined functions?					
	(e)	Explain Tuples. How do we create Tuples? Explain with example.					
80 % V	(f)	Write a program to print the numbers divisible by 3 till n. Take n as input					
		from user. (Create user defined function).					

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4. Answer any three from the following: (Each of 5Marks)

(b)

(c)

(d)

(e)

	function?	TO STORY			
(b)	Write a short note on List Comprehension.				
(c)	Explain the following terms of Object Oriented Programming:				
	(i) Class (ii) Methods	5,00			
(d)	Discuss the concept "Dictionary".	}. ````			
(e)	Define Built-in functions. Explain any 4 built-in functions along with an example.				
(f)	Write a program to create an anonymous function to calculate Cube of a number.				
5. Answer a	ny three from the following: (Each of 5 Marks)	15			
(a)	Define user defined function. Write the syntax to define user defined function. Give example for the same.				

(a) What is the difference between user defined function and anonymous

Illustrate the use of range () in python along with an example.

What is the difference between interactive and script modes of IDLE?

Write a short note on assert statement.

Explain for loop with example.