## Paper / Subject Code: 82102 / Programming with Python-I.

FYCS.

		(2½ Hours)			[Total Marks: 75]	
N.B.	1) All questions are compulsory.					
	2) Figures to the right indicate marks.					
	3) Illustrations, in-depth answers and diagrams will be appreciated.					
	4) Mixing of sub-questions is not allowed.					
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Q. 1	Attempt	All (Each of 5 Marks)		- 100 B		(15M)
(a)	Multiple choice questions					(5M)
1.	is not a Keyword in Python.					
	a) False	b) class	c) Global		d) All of the above	
2.	Python is	langua				<b>\</b> _J
	a) machin			sensitive	d) none of these	
3.	What is the correct operator of power (x <sup>y</sup> ) in Python?					
	a) x ** y	b) x ^^ y		d) x ^	V	
4.		terprets either zero or				7.5°
14	a) Negativ		c) Positive	d) FAL	SE A	
5.	Nothing happens whenstatement is executed.					
	a) break	b) continue	THE PERSON NAMED IN COLUMN TO SECURE OF THE PERSON OF THE	d) none		
		4000				State of the S
(b)	Fill in the blanks (Variable, lambda, break, List, Built-in, Keyword, def,					(5M)
022	continue, Dictionary, User-defined, *, -)					
1.	cannot be used as variable name.					
2.	statement moves the program control to the top of the loop.					
3.	is an unordered collection of key value pair.					
4.	Operator cannot be used with Strings in Python.  Anonymous functions are defined by keyword					
5.	Anonyme	us functions are define	ea by keyword			
(c)	Short answers in 1-2 sentences					(5M)
1.	Assert statement.					()
2.	Definition of function.					
3.	Use of break statement.					
4.	Use of dir () function.					
5.	A STATE OF THE PARTY OF THE PAR	nip operators.				
	Attempt the following (Any THREE)					(15M)
(a)	Which are the two basic modes in Python Interpreter? Explain.					
(b)	List the rules for writing Identifiers in Python.					
(c)	Explain any five built-in functions in Python with suitable examples.					
(d)	What is Tuple? How to create it? Explain any three tuple operators.					
(e)	How to take input and display output of different values in Python? Explain.					
(f)	Give Python statement for the following:-					
	i. Create a String mystring with value "Python World".					
	ii. Print last character of above string.					
	iii. Print length of above string.					
	iv. Print 3 <sup>rd</sup> to 5 <sup>th</sup> character of above string.  v. Print 3 <sup>rd</sup> to 2 <sup>nd</sup> last character of above string.					
	<b>V</b> .	Print 3rd to 2nd last ch	aracter of above s	string.		
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## Q. 3 Attempt the following (Any THREE) (15M)Explain if-elif-else statement with syntax and example. Define Dictionary. How to create, update and delete it? Explain with suitable How to create own functions in Python with/without parameters? Explain with (c) examples. (d) How to use iterative for loop in Python? Explain. (e) Give the concept of local and global variables in function. Write a Python program to give the following output:-1 2 3 4 5 6 7 8 9 2 4 6 8 10 12 14 16 18 20 3 6 9 12 15 18 21 24 27 30 Q. 4 Attempt the following (Any THREE) Write a note on Anonymous Functions. (a) Define a Class and Object in Python? How to create it? Explain with example. (b) List any five methods of Lists? Explain any four with example. (c) Explain map () function with an example. Write a program in python to count the number of each vowel in a string using (e) dictionary and list comprehension. (f) Write a Python program to o check whether number is Armstrong or not. Q. 5 Attempt the following (Any THREE) (15M)Give the importance of precedence of operators in Python? (a) What is the role of Indentation in Python? Give example to illustrate. (b) Explain Random module and its functions. (c) (d) Write a program in python to display the Fibonacci sequence up to nth term, where n is given by the user. (e) Write a program in Python to solve quadratic equation when values of a, b and c are not equal to zero.