

				Sub	ject	Coc	le: K	INC	402
Roll No:									

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BTECH (SEM IV) THEORY EXAMINATION 2021-22 PYTHON PROGRAMMING

Time: 3 Hours Total Marks: 50

Note: Attempt all Sections. If you require any missing data, then choose suitably.

SECTION A

44	SECTION A 2.5*4	_ 10					
Qno	ot all questions in brief. Questions						
	Discuss why Python is called as dynamic and strongly typed language?	CO					
(a)		2					
(b)	How pass statement is different from a comment?						
(c)	Write a for loop that prints numbers from 0 to 57, using range function.	2					
(d)	What is the difference between Python Arrays and Lists?	3					
++ a ma m	SECTION B	= 8					
Qno	t any two of the following: Questions 4*2	CO					
	Write a python function named ComputeAverage to find average of a list of						
(a)	numbers. It should handle the exception if the list is empty and return 0 in	3					
	that case.						
(b)	Implement the binary search technique.	5					
(c)	Explain the use of break and continue with a suitable example.	2					
	SECTION C						
	t any two part of the following: 4*2=						
Qno	Questions	СО					
(a)	What do you mean by operator precedence and associativity. Explain.	1					
(b)	Write short notes on	1					
	i. The programming cycle for python						
(a)	ii. Type conversion in python Write Python program to swap two numbers without	1					
(c)	Write Python program to swap two numbers without Intermediate/Temporary variables. Prompt the user for input.	1 usi					
ttemn	of any two part of the following: 4*2=	= 8					
Qno	Questions	CO					
(a)	Write a program to check an input number is prime or not.						
(b)	Write a program that accepts a sentence and calculate the number of digits,	2					
(0)	uppercase and lowercase letters.	_					
(c)	Write a program to check an input year is leap year or not.						
ttemp	et any two part of the following: 4*2	= 8					
Qno	Questions	CO					
(a)	There is a file named Input.Txt. Enter some positive numbers into the file	4					
	named Input.Txt. Read the contents of the file and if it is an odd number						
	write it to ODD.TXT and if the number is even, write it to EVEN.TXT						
(b)	Discuss Exceptions and Assertions in Python. Explain with a	4suit					
(a)	example. Explain any two built-in exceptions. What is the significance of module in Python? What are the methods of	1					
(c)	importing a module? Explain with suitable example	4					
ttemn	of any two part of the following: 4*2	= 8					
Qno	Questions Questions						
(a)	What do you mean by recursion? Write a recursive function to compute the						
\ /	factorial of an input number N.	5					
(b)	Implement selection sort using Python	5					