

	Subject Code: KNC402												
Roll No:													

Printed Page: 1 of 1

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

Total Marks: 50 Time: 3 Hours

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

SECTION A

•	ot <i>all</i> questions in brief.	_
Qno	Questions	(
(a)	Discuss why Python is called as dynamic and strongly typed language?	1
(b)	How pass statement is different from a comment?	2
(c)	Write a for loop that prints numbers from 0 to 57, using range function.	1
(d)	What is the difference between Python Arrays and Lists?	
44	SECTION B	•
	ot any two of the following: Questions 4*2	<u>z</u> =
Qno	`	
(a)	Write a python function named ComputeAverage to find average of a list of numbers. It should handle the exception if the list is empty and return 0 in that case.	
(b)	Implement the binary search technique.	
(c)	Explain the use of break and continue with a suitable example.	1
(•)	Emplain the due of creak and continue with a durance chample.	
	SECTIONC	
ttemp	ot any two part of the following: 4*2	=
Qno	Questions	1
(a)	What do you mean by operator precedence and associativity. Explain.	1
(b)	Write short notes on	
	i. The programming cycle for python	
	ii. Type conversion in python	
(c)	Write Python program to swap two numbers without using	
++ a ma m	Intermediate/Temporary variables. Prompt the user for input. ot any two part of the following: 4*2	L
Qno	Questions Questions	_
(a)	Write a program to check an input number is prime or not.	
` '	1 1 1	_
(b)	Write a program that accepts a sentence and calculate the number of digits, uppercase and lowercase letters.	
(c)	Write a program to check an input year is leap year or not.	
ttemp	ot any two part of the following: 4*2	=
Qno	Questions	
(a)	There is a file named Input.Txt. Enter some positive numbers into the file 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 suitable example. Explain any two built-in exceptions.	
(c)	What is the significance of module in Python? What are the methods of importing a module? Explain with suitable example	
•	ot any two part of the following: 4*2	_
A	Questions	ļ '
Qno	What do not not be accoming White a manufactor for the committee the	
(a)	What do you mean by recursion? Write a recursive function to compute the factorial of an input number N.	
	factorial of an input number N. Implement selection sort using Python	1