

				Sub	ject	Cod	le: k	<b>INC</b>	402	i
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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.

tempt and Qno  (a) W  tempt and Qno  (b) In	Questions  viscuss why Python is called as dynamic and strongly typed language?  Tow pass statement is different from a comment?  Vrite a for loop that prints numbers from 0 to 57, using range function.  Vhat is the difference between Python Arrays and Lists?  SECTION B  Ny two of the following:  Questions  Vrite a python function named ComputeAverage to find average of a list of umbers. It should handle the exception if the list is empty and return 0 in at case.  In plement the binary search technique.  Explain the use of break and continue with a suitable example.  SECTION C
tempt and the column that the	ow pass statement is different from a comment?  Vrite a for loop that prints numbers from 0 to 57, using range function.  Vhat is the difference between Python Arrays and Lists?  SECTION B  Ny two of the following:  Questions  Vrite 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.  In plement the binary search technique.  Explain the use of break and continue with a suitable example.
tempt ar Qno (a) W	Vite a for loop that prints numbers from 0 to 57, using range function.  What is the difference between Python Arrays and Lists?  SECTION B  Note that following:  Questions  Vite a python function named ComputeAverage to find average of a list of the umbers. It should handle the exception if the list is empty and return 0 in last case.  In plement the binary search technique.  Explain the use of break and continue with a suitable example.
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(b) In	mplement the binary search technique.  xplain the use of break and continue with a suitable example.
	xplain the use of break and continue with a suitable example.
(5) 25	
<b>tempt a</b> r Qno	ny two part of the following:  Questions  4*2
`	That do you mean by operator precedence and associativity. Explain.
` /	rite short notes on
	<ul><li>i. The programming cycle for python</li><li>ii. Type conversion in python</li></ul>
Int	rite Python program to swap two numbers without using termediate/Temporary variables. Prompt the user for input.
	ny <i>two</i> part of the following: 4*2
Qno	Questions
(a) W:	rite a program to check an input number is prime or not.
	rite a program that accepts a sentence and calculate the number of digits, opercase and lowercase letters.
	rite a program to check an input year is leap year or not.
	ny two part of the following: 4*2
Qno	Questions
na	nere is a file named Input.Txt. Enter some positive numbers into the file amed Input.Txt. Read the contents of the file and if it is an odd number rite it to ODD.TXT and if the number is even, write it to EVEN.TXT
(b) Di	iscuss Exceptions and Assertions in Python. Explain with a suitable cample. Explain any two built-in exceptions.
(c) W	That is the significance of module in Python? What are the methods of aporting a module? Explain with suitable example
•	ny two part of the following: 4*2
Qno	Questions
(a) W	That do you mean by recursion? Write a recursive function to compute the
	ctorial of an input number N.  pplement selection sort using Python
	That are different types of inheritance supported by Python? Explain.