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BTECH (SEM III) 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

1.	Attempt all questions in brief.	2*5 = 10
	11ttchipt and questions in biles.	

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1
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3
4
5

SECTION B

2. Attempt any three of the following:

Qno

(a)

(b)

ipt any unite of the following.	10				
Questions	CO				
What do you mean by Python IDE? Explain in detail.	1				
How can you randomize the items of a list in place in Python?					
Explain Tuples and Unpacking Sequences in Python Data Structure.	3				

(a)	what are rine input and output operations in Fython Programming?	4
(e)	Solve the Tower of Hanoi problem for n= 3 disk and show all the steps.	5

3. Attempt any one part of the following:

5*1 = 5	
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Qno	Questions	CO
(a)	Write a program in Python to execute the Selection sort algorithm.	5
(b)	Explain why python is considered an interpreted language.	1

4. Attempt any one part of the following:

Qno	Questions	CO
(a)	Write a Python program to construct the following pattern, using a nested for loop.	2
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(b)	Write a program to produce Fibonacci series in Python.	4

5. Attempt any *one* part of the following: 5*1 = 5

Qno	Questions	CO
(a)	Write a Python program to change a given string to a new string where	3
	the first and last chars have been exchanged.	
(b)	Write a Python program to add an item in a tuple.	3

6. Attempt any *one* part of the following: 5*1 = 5

Qno	Questions								
(a)	How to create and import a module in Python?								4
(b)	Explain the	algorithm	Sieve	of	Eratosthene	used	in	Python	4
	Programming.				0				

7. Attempt any *one* part of the following: 5*1 = 5

Qno	Questions	CO
(a)	Write a Recursive function in python BinarySearch(Arr,l,R,X) to search the given element X to be searched from the List Arr having R elements, where I represent slower bound and R represents the upper bound.	5
(b)	Explain the terms Merge List and Merge Sort in Python Programming.	5
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