Roll No.

Total Pages: 3

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December 2023

B.Tech. (EL) - V SEMESTER

Programming in Python (ELOE-122)

Time: 3 Hours]

[Maximum Marks: 75

Instructions:

- 1. It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.
- 2. Answer any four questions from Part-B in detail.
- 3. Different sub-parts of a question are to be attempted adjacent to each other.

PART-A

1. (a) Explain features of Python. (1.5)

(b) What are negative indexes in Python? (1.5)

(c) What are break and continue used for in a loop? (1.5)

(d) Differentiate between Tuples and Lists. (1.5)

(e) What is dictionary used for? (1.5)

(f) Syntax to print first 10 odd numbers in Python. (1.5)

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	(g)	What is the need of seek() function in Files in Pyth	non?		
		. ((1.5)		
	(h)	What is slicing? Explain using Syntax.	(1.5)		
	(i)	What are Python comments?	(1.5)		
	(j)	What are lamda functions?	(1.5)		
		PART-B			
	(-)				
	(a)	Explain, using syntax, various data types supporte			
		Python.	(10)		
	(b)	Write a program to read a four digit number and p	orint		
	(-)	the product of digits.	(5)		
		2. Answer any four questions from Petri-B in	(0)		
	(a)	What is a package? How is it different fro	m a		
		module?	(5)		
	(b)	What is a file? Explain modes of operation in a	text		
		file.	(10)		
		(a) Explain features of Python.	1.1		
	What is a constructor? How does it differ from an ordinary				
	function? Write a program to demonstrate the use of a				
	con	astructor and a docstring in a class.	(15)		
	(a)	Write a program to find cube of a number using	g def		
		function.	(5)		
		(e) What is dictionary used for?			
	(b)				
		with Exception handling mechanism.	(10)		

,.	(a)	Explain various operators in Fython.	(10)
	(b)	What is numpy used for?	(5)
' .	(a)	What is a String? Explain using syntax any 4 associated with String class.	methods (10)
	(b)	What is the use of Dataframes?	(5)