Enrollment No.___



School:School of Engineering and TechnologyProgram/s:Computer Science & EngineeringYear:1stExamination:End Semester:Examination year:May - 2023

Course Code:CS193Course Name:Problem Solving using PythonDate:18/05/2023Total Marks:40Time:2:00 pm to 4:00 pmTotal Pages:4

Instructions:

➔ Write each answer on a new page.

➔ Preferably, write the answers in sequential order.

Q. No.	Details			BTL*
Q.1	Multiple Choice Questions - All are compulsory (1 Mark for each)	10		
	1 Which function is used for assisting on induction of the iterated			
	 Which function is used for assigning an index to each item of the iterable object? 			
	a) Enumerate ()		C01	BT1
	b) Index ()			
	c) Insert ()			
	d) Extend ()			
	2. If the programmer wants two independent lists, he should not go for			
	a) Cloning			
	b) Copying		CO1	BT1,
	c) Aliasing			BT2
	d) Cloning or Copying			
	The strftime () method is defined under the class:			
	a) Date			
	b) Datetime		C04	BT1
	c) Time			
	d) All the mentioned classes			
	4. What will be the output of the following code snippet?			
Ĩ	$print(2^{**3} + (5+6)^{**}(1+1))$			
	a) 129		COZ,	BT4
	b) 8		CO3	BTS
	c) 121			
	 d) None of the mentioned 5. Which of the following is the proper syntax to check if a particular closer 			
	5. Which of the following is the proper syntax to check if a particular element is present in a list?	t		
	a) if ele in list			
	b) if not ele not in list		CO2	BT4
	c) Both the mentioned syntax		COL	1 014
	d) None of the mentioned			
	6. As what datatype are the *args stored, when passed into a function?			
	a) List			
	b) Tuple			
	c) Dictionary		C01	BT1
	d) None of the mentioned			
	7. Which of the following statements is correct for variable names in Pytho	1	-	
	language?		C01	BT

	d) give9. What is the output of the following code?			
	print(x.upper())			
	a) Hello		CO4	BT4 BT5
	b) hello			
	c) HELLOd) None of the above			
	10. Which of the following is NOT a data type in Python?			
	a) float			
	b) boolean		CO1	BT1
	c) string			
0.2	d) array			
Q.2	Find out the output / Error Checking: All are compulsory. (1 Mark + 2 Marks)	3		
	1. What will be the output of the following code?			
	set1 = {1, 3, 5}		CO2,	BT4.
	set2 = {2, 4, 6}		CO4	BT5. BT6
	<pre>print(len(set1 + set2))</pre>			
	 Observe the following Python code very carefully and rewrite the code in python after removing all error(s). Underline each correction done in the code. 		2	
	N = int(input("Enter any number:")) S = 0			
	for i in range (1, N, 2)		CO2,	BT2,
	S+=1		CO3,	BT4, BT5,
	if i%2=0:		C04	BT6
	print("i" * 2)			
	else: print("i" * 3)			
	print[S]			
Q.3	Short Answer Type Questions - Attempt any 4 questions. (3 Marks for each)	12		
	1. What is local and global scope of variable in python. Explain the different scenarios with an example. How can you force a variable in a function to refer to the global variable?		CO1	BT1
	2. What is a lambda function? Explain with an example.		C03	DT 1
	3. List out atleast three useful string methods which supports in python. Explain each of them with example.	-	CO1, CO2,	BT1 BT1.
	 Explain the difference between a list and a tuple in Python. 		CO3	BT6 BT1,
	 What is Dictionary? Explain Python dictionaries in detail discussing its operations and methods. 		CO1	BT2 BT1
	6. What is the difference between a for loop and a while loop in Python? Give an example of each		CO3	BT2, BT6 BT1,
	a while loop in Python? Give	[
Q.4	an example of each. Long Answer Type Questions - Attempt any 3 questions.		CO2, CO4	BT5, BT6

(5 Marks for each)					
1. Write a recursive python function to calculate the factorial of a number.				CO2, CO4	BT4 BT6
2. Write a Program to Prompt for a Score between 0.0 and 1.0. If the Score is out of range, print an error. If the score is between 0.0 and 1.0, print a grade using the following table:				604	
	Score	Grade			07.4
	>=0.9	А		CO2, CO4	ВТ4, ВТ5,
	>=0.8	В			BT6
	>=0.7	С			
	>=0.6	D			
	<0.6	F			
 3. Explain the methods of List data type in Python for the following operations with suitable code example for each. a) Adding values to a list b) Removing values from a list c) Finding a value in a list d) Sorting the values in a list e) Aliasing 				C01, C03, C04	BT1, BT3, BT6
			umbers between 0 and 100.	C04	BT5, BT6
5. Write short note on importing the array module in python with an example.					BT1. BT6

***********End of Question Paper**********