Printed Pa	ge:-	Subject Code:- AMICSE0101 Roll. No:		
	(An Autonon Affiliated to Dr. A.P.J. Abdul Kalam Tecl M.T SEM: I - THEORY EXAL	AND TECHNOLOGY, GREATER NOIDA nous Institute) nnical University, Uttar Pradesh, Lucknow Tech (Int) MINATION (2021 - 2022) olving using Python		
Time: 03	3:00 Hours	Max. Marks: 100		
General In	structions:			
1. All	questions are compulsory. It comprises three S	Sections A, B and C.		
 Section A - Question No- 1 is objective type question carrying 1 mark each & Question No- 2 is very short type questions carrying 2 marks each. Section B - Question No- 3 is Long answer type - I questions carrying 6 marks each. Section C - Question No- 4 to 8 are Long answer type - II questions carrying 10 marks each. No sheet should be left blank. Any written material after a Blank sheet will not be evaluated/checked. 				
	SECTION	A 20		
1. Attempt	-			
1	What is the output of the following code : (0 print $(9//2)$	CO1) 1		
	1. 4.5 2. 4 3. 4.0			
1	4. None Select the right way to create a string literal	Rama's City . (CO1)		
1	1. str1 = 'Rama\\'s City' 2. str1 = 'Rama\\'s City' 3. str1 = 'Rama\'s City' 4. str1 = "'Rama\\'s City''	rana's City'. (CO1)		
1-c.	What is the output of the following loop? (CO2) 1		
	for i in 'NIET': if i == 'E': pass print(i, end=", ") 1. N, I, E, T 2. N, I, T 3. E 4. Error			
1-d.	What is the output of the following if statem	ent? (CO2) 1		
	<pre>a, b = 12, 5 if a + b: print('True') else: print('False')</pre>			

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4. Error
1-e.
           What is the output of the add() function call? (CO3)
                                                                                                                 1
           def add(a, b):
              return a+5, b+5
           result = add(3, 2)
           print(result)
                   1.15
                   2.8
                   3.(8,7)
                   4. Syntax Error
1-f.
           What is the output of the following function call? (CO3)
                                                                                                                 1
           def fun1(num):
              return num + 25
           fun1(5)
           print(num)
                   1.25
                   2.5
                   3, 30
                   4. NameError
           What is the output of the following? (CO4)
                                                                                                                 1
1-g.
           a = [1, 2, 3, 4, 5, 6, 7]
           pow2 = [2 * x for x in a]
           print(pow2)
                   1. [2, 4, 6, 8, 10, 12, 14]
                   2. [2, 4, 8, 16, 32, 64, 128]
                   3. [1, 2, 3, 4, 5, 6, 7]
                   4. LogicalError
           Select correct ways to create an empty dictionary. (CO4)
1-h.
                                                                                                                 1
                   1. sampleDict = {}
                   2. sampleDict = dict()
                   3. sampleDict = dict{}
                   4. Both option 1 and 2 are correct
1-i.
           To open a file c:\scores.txt for appending data, we use _____. (CO5)
                                                                                                                 1
                   1. outfile = open("c:\\scores.txt", "a")
                   2. outfile = open("c:\\scores.txt", "rw")
                   3. outfile = open(file = "c:\scores.txt", "w")
                   4. outfile = open(file = "c:\\scores.txt", "w")
           When will the else part of try-except-else be executed? (CO5)
1-j.
                                                                                                                 1
                   1. always
                   2. when an exception occurs
                   3. when no exception occurs
                   4. when an exception occurs in to except block
2. Attempt all parts:-
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3.17

2-a.	Differentiate between type-conversion and type-casting. (CO1)	2
2-b.	Print series 1,2,3,4,6,7,8,10 using for loop. (CO2)	2
2-c.	What is the advantage of recursion as compared to iteration? (CO3)	2
2-d.	Write a python program to sort the element of list based on their length. (CO4)	2
2-e.	Write a program that print the names of all of the item in the current working directory. (CO5) SECTION B 30	2
3. Answer	r any <u>five</u> of the following:-	
3-a.	Design a flow-chart to find sum of odd digits of a given number. (CO1)	6
3-b.	What is Cache memory? How is it different from the primary memory? (CO1)	6
3-c.	Write a Python Program to find the frequency of each digit in a number. (CO2)	6
3-d.	Write a Python program to accept three numbers from the user and display the second largest number. (CO2)	6
3-e.	Elaborate various types of actual and formal arguments used in functions. Give example of each type of arguments. (CO3)	6
3-f.	Differentiate between the following methods of list using example: (CO4) a). append() and extend() b).pop() and remove()	6
3-g.	Write a program that prompts the user to enter two numbers and displays their sum. Raise an exception and handle it if a non-number value is given as input. (CO5)	6
4 4	SECTION C 50	
	r any one of the following:-	10
4-a.	Draw a diagram of digital computer and explain its all components in details. (CO1)	10
4-b.	Define operators in python. Explain about relational and logical ,Membership operators with python code example. (CO1)	10
	r any <u>one</u> of the following:-	
5-a.	Write a Python program to find sum and reverse of digits in a number entered by the user within same loop body. (CO2)	10
5-b.	Write a Python program to enter marks of a student in four subjects. Then calculate Total and aggregate, and display the grade obtained by the student. (CO2) If the student scores an aggregate >=75%, then the grade is Distinction. If aggregate is >= 60 and <75, then the grade is First Division. If aggregate is >= 50 and <60, then the grade is Second Division. If aggregate is >= 40 and <50, then the grade is third Division. Otherwise the grade is fail.	10
6. Answer	r any <u>one</u> of the following:-	
6-a.	Explain recursion. Write a program to reverse a string using recursion. (CO3)	10
6-b.	What are packages? Give an example of package creation and installation in Python. Write a small code to illustrate the use of package in Python. (CO3)	10
7. Answer	r any <u>one</u> of the following:-	
7-a.	Write a Program to generate Fibonacci sequence up to nth term and store it in a list. Then find the sum of odd number. (CO4)	10
7-b.	Write a Program to read a name and display it in abbreviated form .like Jai Kumar should be display as JK. (CO4)	10
8. Answer	r any <u>one</u> of the following:-	
8-a.	A file named DATA.txt contains a series of integer numbers separated by space. Write a program to read these numbers and then write all "odd" numbers in a file to be called ODD.txt and all "even" numbers in a file to be called EVEN.txt. (CO5)	10
8-b.	Define Error. Explain different types of errors with suitable example. Create a try and multiple except block to handle namerror, typeerror and some other unexpected error. (CO5)	10