

Printed page: 02

Subject Code: ACSE0101/AMICSE0101

Roll No:

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NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute Affiliated to AKTU, Lucknow)

B.Tech/ /M.Tech (Integrated)

(SEM: I SESSIONAL EXAMINATION –III) (2020-2021)

Subject Name: Problem Solving Using Python

Time: 1.15Hours

Max. Marks:30

General Instructions:

- All questions are compulsory. Answers should be brief and to the point.
- This Question paper consists of 02 pages & 5 questions.
- It comprises of three Sections, A, B, and C. You are to attempt all the sections.
- **Section A** - Question No- 1 carrying 1 mark each, Question No- 2 is very short answer type carrying 2 mark each. You are expected to answer them as directed.
- **Section B** - Question No-3 is Short answer type questions carrying 5 marks each. You need to attempt any two out of three questions given.
- **Section C** - Question No. 4 & 5 are Long answer type (within unit choice) questions carrying 6 marks each. You need to attempt any one part a or b.
- Students are instructed to cross the blank sheets before handing over the answer sheet to the invigilator.
- No sheet should be left blank. Any written material after a blank sheet will not be evaluated/checked.

		<u>SECTION – A</u>	[8]	
1.	Question -		(4×1=4)	CO
	a.	A file is stored in _____ memory. (a) primary (b) <u>secondary</u> (c) cache (d) ROM	(1)	[CO5]
	b.	Write various file opening modes.	(1)	[CO5]
	c.	What list method adds a new item to the end of an existing list? (a) push() (b) add() (c) forward() (d) <u>append()</u>	(1)	[CO4]
	d.	names = "{1}, {2} and {0}".format('Pizza', 'Burger', 'French Fries')	(1)	[CO4]

		<pre>print(names)</pre> <p>A.Pizza, Burger and French Fries B.Burger, French Fries and Pizza C.Burger, Pizza and French Fries D.Pizza, French Fries and Burger</p>		
2.	Questions-		(2×2=4)	CO
	a.	<p>What will be the output of the following code snippet?</p> <pre>value = [1, 2, 3, 4] data = 0 try: data = value[4] except IndexError: print('NIET', end = ") except: print('Noida institute of engineering and technology ', end = ")</pre>	(2)	[CO5]
	b.	Write a Program to create a list of first 20 odd numbers using list comprehension.	(2)	[CO4]
SECTION – B				
3.	Question- Answer any <u>two</u> of the following-		[2×5=10]	CO
	a.	Explain the following method: mkdir(), chdir(), rmdir(), makedirs()	(5)	[CO5]
	b.	Write a program to check if a string is palindrome or not.	(5)	[CO4]
	c.	A file named DATA.txt contains a series of integer numbers. Write a program to read these numbers and then write all "odd" numbers to a file to be called ODD.txt and all "even" numbers to a file to be called EVEN.txt.	(5)	[CO5]
SECTION – C				
4	Answer any <u>one</u> of the following-		[2×6=12]	CO
	a.	What do you mean by sorting? Write a program to implement Merge Sort.	(6)	[CO5]
	b.	What is searching? Write a program to implement Sequential Search.	(6)	[CO5]
5.	Answer any <u>one</u> of the following-			
	a.	Explain packing and unpacking of elements in sequences .Explain the concept of packing and unpacking in function arguments? Explain with code snippet.	(6)	[CO4]
	b.	Which module is to be imported for regular expression? Explain any four methods used in this module with example.	(6)	[CO4]