Printed Page:-04	Subject Code:- ACSE0101/ACSEH0101 Roll. No:
(An Autonomous Institute B SEM: I - THEORY EXA	G AND TECHNOLOGY, GREATER NOIDA Affiliated to AKTU, Lucknow) 3.Tech AMINATION (2024 - 2025) a Solving using Python
Time: 3 Hours	Max. Marks: 100
General Instructions:	1/2011 1/2011 1/20
** *	on paper with the correct course, code, branch etc.
	tions -A, B, & C. It consists of Multiple Choice
Questions (MCQ's) & Subjective type question 2. Maximum marks for each question are indic	
3. Illustrate your answers with neat sketches w	
4. Assume suitable data if necessary.	
5. Preferably, write the answers in sequential of	
6. No sheet should be left blank. Any written m	aterial after a blank sheet will not be
evaluated/checked.	
SECTION-A	20
1. Attempt all parts:-	20
• •	form of a programming language, it becomes 1
a [CO1][K1]	form of a programming language, it becomes 1
(a) Flowchart	
(b) Program	
(c) Pseudo code	
(d) Syntax	
1-b. Which type of Programming does Py	vthon support? [CO1][K2]
(a) object-oriented programming	The state of the s
(b) structured programming	
(c) functional programming	
(d) all of the mentioned	
1-c. What will be the final value of i after	r 1
for i in range(3): [CO2][K3]	
(a) 0	
(b) 1	
(c) 2	
(d) 3	
1-d. What is the value of s[4:1:-1]. [CO2 Where s="Python"	2] [K3] 1

	(a)	pyt	
	(b)	hon	
	(c)	yth	
	(d)	oht	
1-e.		return statement is not used inside the function, the function will return: CO3][K2]	1
	(a)	None	
	(b)	0	
	(c)	Null	
	(d)	Arbitrary Value	
1-f.	W	That is a recursive function? [CO3]	1
	(a)	A function that calls other function.	
	(b)	A function which calls itself.	
	(c)	Both A and B	
	(d)	None of the above	
1-g.	X	That will be the output of the following Python code? [CO4] [=[[1,2,3], [4,5,6], [7,8,9]] [row[i] for row in X] for i in range(3)]].	1
	(a)	Error	
	(b)	Error [[1, 4, 7], [2, 5, 8], [3, 6, 9]] 147	
	(c)	147	
	258		
	369		
	(d)	(147)	
	(258		
1 1	(369		1
1-h.		Which data Structure does not allow duplicate values? [CO4]	1
	(a)	List	
	(b)	Tuple	
	(c)	Dictionary	
	(d)	Set	
1-i.	_	block contains code which may cause exception. [CO5]	1
	(a)	try	
	(b)	except	
	(c)	else	
	(d)	finally	
1-j.	V	Which error will be raised when denominator of division operator is zero. [CO5]	1
	(a)	ZeroDivisionError	
	(b)	ValueError	

(	(c) NameError	
(	(d) SyntaxError	
2. Atten	npt all parts:-	
2.a.	Define operators in python. [CO1] [K1]	2
2.b.	Listout the all types of loop in python. [CO2] [K2]	2
2.c.	Describe the need of the function? [CO3][K1]	2
2.d.	Explain Slicing in Python with a help of an example for all data types. [CO4][K3]	2
2.e.	What is the difference between readline() and readlines()? [CO5] [K4]	2
<b>SECTI</b>	<u>ON-B</u>	30
3. Answ	ver any <u>five</u> of the following:-	
3-a.	Expalin various data types available in Python. [CO1][K1]	6
3-b.	Give the characteristics of the memory hierarchy chart. [CO1][K2]	6
3-c.	Is it necessary for every if block to be accompanied with an else block? Justify your answer with an example (program)? [CO2][K3]	6
3-d.	Write a Python Program to Display the multiplication Table of a number entered by user? [CO2][K3]	6
3.e.	Explain how to create a module. Implement an arithmetic calculator using module. [CO3][K4]	6
3.f.	Explain in detail about dictionaries and its operations. What is a dictionary in Python? Give example. [CO4]	6
3.g.	Describe in detail exception handling with sample program. [CO5]	6
<b>SECTI</b>	ON-C	50
4. Answ	ver any one of the following:-	
4-a.	Write an algorithm and design a flow-chart to find greatest among three numbers. (CO1) [ K3]	10
4-b.	Explain the Python development cycle in detail. [CO1][K2]	10
5. Answ	ver any one of the following:-	
5-a.	Define the following with the necessary examples. [CO2] [K2] i. if statement ii. if-else-if statement iii. nested –if statement	10
5-b.	Explain while else statement. Write a Python program that accepts a sequence of lines (blank line to terminate) as input and prints the lines as output (all characters in lower case). [CO2] [K3]	10
6. Answ	ver any one of the following:-	
6-a.	Write short notes on: [CO3][K2] (a.) Keyword Arguments (b.) Default Arguments (c.) Lambda functions	10

	give example of each. [CO3][K4]	
7. Answe	r any one of the following:-	
7-a.	Explain packing and unpacking of elements in sequences .How can we return the values in the function using the concept of packing and unpacking?Explain [CO4] [K2]	10
7-b.	Write a program that has a nested list to store the toppers details. Edit the details and reprint the details.[CO4][K5]	10
8. Answe	r any one of the following:-	
8-a.	Write a Python program to remove all the duplicates lines from the file. [CO5][K3]	10
8-b.	Explain need of file handling and its mode in python with example.[CO5][K3]	10

Explain various types of formal arguments using which a function can be called,

10

6-b.

