Name: Student University Roll No.:	inted Pages:
School of Engineering Second Sessional Examination, Even Semester B. Tech: CS(1A-1J) Year: 1st Se	(AS: 2023-24) emester: II
Course Title: Programming Concepts with Python Course Code: NCS4201	Max Marks: 60 Time: 3hrs

	SECTION 'A'	Course	184
Q.	N.1. Attempt all parts of the following:	Objective	Mai
a)	What are the elements of python?	CO1	1
b)	Create an empty dictionary.	CO2	1
c)	Write the output of the given code: X=18	CO2	1
d)	assert X>20,"Hello I am executing"		
e)	What do you mean by Python IDLE.	C01	1
f)	Explain the import statement with example.	CO3	1
	Write a program to implement union of two different sets.	CO2	1
g)	Define Lambda Function with example.	CO3	1
h)	Discuss file and its type.	CO4	1
Q.I	SECTION 'B' N.2. Attempt any two parts of the following:	Course Objective	Mar ks
a)	Explain Sieve of Eratosthenes Algorithm also Write a program to implement given algorithm.	CO3	6
0)	Explain the Break, Continue & Pass statement with suitable example.	CO2	6
	What is Function? Discuss different ways of Argument/Parameter passing Methods in Function.	CO3	6
)	What is module? Write a program to implement User-defined module.	CO3	6
	SECTION 'C'	Course Objective	Mar ks
N.3	3. Attempt any two parts of the following:		
11	What is String? Perform concatenation, repetition, licing, and split the string on the basis of space.	CO2	5
	ha is Power phient Explain with example. 1	CO4	5

c)	discuss with example:	CO2	. 5
10	NA Aftempt any two parts of the following:		
	Write a program to print the given pattern: 1 4 9 16 25 1 4 9 16 25 a) 1 4 9 16 1 4 9 1 4	CO2	5
b)	Explain Python Programming Cycle with diagram.	CO1	5
c)	What is Inheritance? Also explain its types,	CO4	5
Q.	N.5. Attempt any two parts of the following:		
а	What are the different modes of opening a file?  Write program to read the first 30 contents of 2 <sup>nd</sup> line.	CO4	5
b)	Write a program to calculate factorial of a given Number, using function.	C03	5
c)	Discuss Object Oriented Programming Concept.	CO4	5
Q.I	N.6. Attempt any two parts of the following:		1010
a)	example.	CO3	5
b)	Explain how to create a dictionary in python & perform four operations in dictionary.	CO2	5
c)	Discuss theinit function in detail with example.	CO4	5

What are the Identity and Membership operators

Table 1: Mapping between COs and questions
(Number of COs may vary from course to course

COs	Questions Numbers	Total Marks
CO1	1(a),1(d),4(b)	07
CO2	1(b),1(c),1(f),2(b),3(b),3(c),4(a),6(b)	29
CO3	1(g),2(a),2(c),2(d),5(b),6(a)	30
CO4	1(h).3(b).4(c).5(a).5(c).6(c)	26