Name			Printed Pages:01		
Student Admn. No.:					
School of SCSE					
Backlog Examination, June 2023 [Programme: BCA] [Semester: IV] [Batch:]					
Course Title: Programming In Python			Max Marks: 100		
Course Code: BCAC2203			Time: 3 Hrs.		
Instructions: 1. All questions are compulsory.					
2. Assume missing data suitably, if any.					
			K		M1-
			Leve	COs	Mark
			1		S
SECTION-A (15 Marks) 5 Marks each					
1.	Explain what is dictionary and how it is created in Python?		K2	CO1	5
2.	What are the basic list operations that can be performed in Python. What i the use of str.upper() and str.lower() functions in string?	S	K2	CO2	5
3.	Define a property that must have the same value for every class instance (object).		K3	CO3	5
SECTION-B (40 Marks) 10 Marks each					
4.	Write a Python program to accept three numbers, find the greatest and print result.	t the	K2	CO1	10
5.	Write a Python code to find root of the equation $x + cos(x)$? Drive the rol optimizer in python?	e of	К3	CO2	10
6.	Analyze the loops which are used in python, and explain with examples.		К3	CO4	10
	Write a program for Adding and Subtracting array in Python using NumPy	y.			
7.	OR Write a program for Adding and Subtracting matrix in Python using Numl	Py.	К3	CO5	10
	SECTION-C (45 Marks) 15 Marks each				
8.	Write a Python code to demonstrate trigonometric function (sine & cosine) a given array: $X = [0, 30, 45, 60, 90, 120, 135, 150, 180]$) for	К3	CO3	15
9.	Explain in detail about Python libraries, its types, functions and operations with examples.	ons.	К3	CO4	15
10	Create a class Employee with data members: name, department and sal Create suitable methods for reading and printing employee informationOR Drive a python code for implementing the multiple inheritance. Also exp the physical significance of inheritance in OOPs.	•	К3	CO5	15