		MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING, ECE, ME I - Internal Assessment II- Semester (A,B,C,D,E,F,G,H,I,O &P)		Sub. Name: Introduction to Python Programming Sub Code : BPLCK205B Date : 11/05/2024 Total Marks : 30		
NOTE:- Answer any TWO full questions, choosing at least ONE from each PART						
Q#		PART-A		M	BTL	CO#
1		a Develop a program to generate Fibonacci sequence of length (N). Read N from the console.		8	L4	CO4
		b What is an arithmetic expression? List and explain the different operators used in python with example.		7	L2	CO1
OR						
2		a Develop a python program to add n numbers accepted from the user.		8	L4	CO4
		b Illustrate function concept in python with an example.		7	L2	CO1
PART-B						
3		a Illustrate local and global scope concept in python with example and List their rules.		7	L2	CO1
		b Write a function to calculate factorial of a number. Develop a program to compute binomial coefficient (Given N and R).		8	L4	CO4
4		a Define exception? Describe, how exceptions are handled in python with an example.		7	L2	CO1
		b Develop a program to read the student details like Name, USN, and Marks in three subjects. Display the student details, total marks and percentage with suitable messages.		8	L4	CO4




Department of Information Science
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
2nd Internal Assessment
(A,B,C,D,E,F,G,H,I,O & P)
2nd Semester

Introduction to Python Programming-
BPLCK205B-Version-A
Schedule: 12/06/2024 and 9.30am – 10.45am
Total Marks: 30

Answer the Following Questions

Q#	Question Description	M	BTL	COs
PART-A				
1	a Discuss list and dictionary data structure with example for each	5	L3	2
	b Explain the use of in and not in operators in list with suitable example	5	L3	2
	c Explain copy() and deepcopy() using suitable example	5	L3	2
OR				
2	a Apply the Python list methods index(), append(), and insert() to locate and add values within a list. Provide examples to illustrate their application	5	L3	2
	b Explain keys(), values() and items() using suitable example	5	L3	2
	c Demonstrate the use of Python dictionary methods get() and setdefault() with examples	5	L3	2
PART-B				
3	a Write a program to store data about our friends 'birthdays' using dictionary	9	L3	2
	b Demonstrate the use of Python string methods upper(), lower(), isupper(), and islower() through examples	6	L3	2
OR				
4	a Write a program to print tic-tac-toe board using dictionary	9	L3	2
	b Apply the Python string methods startswith(), endswith(), rjust(), and ljust() with examples to demonstrate their functionality	6	L3	2

		MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE			EC	
		Dept. of Electronics and Communication Engineering				
		Sub. Name: Introduction to Python programming (BPLCK205B)				
		Schedule: 17/07/2024 and 09.30-10.45 AM				
		3 rd Internal Assessment				
		2 nd Sem.			Total Marks: 30	
Instructions to students						
1. Answer ONE full question from each part						
Q#	Question Description			M	BTL	COs
PART A						
1	a	Describe absolute and Relative paths.	5	1.2	CO 3	
	b	Write a program to save variables using pprint and shelve module.	10	1.2	CO 3	
2	a	Describe the path validity with an example.	5	1.2	CO 3	
	b	Write a program to read, write, and sort the content of a separate text file by using open(), read(), write(), append(), or sort() functions.	10	1.2	CO 3	
PART B						
3	a	Write a program for permanently deleting files and folders.	5	1.2	CO 3	
	b	Write a program by defining a function that takes two objects representing complex numbers and returns a new complex number by adding two complex numbers. Define a suitable class "Complex" to describe the complex number. Develop a program to read N(N>=3) complex numbers and to compute the addition of N complex numbers.	10	1.2	CO 4	
4	a	Write a program for moving and renaming files and folders.	5	1.2	CO 3	
	b	Describe attributes and user-defined type with an example.	10	1.2	CO 4	

IS + EC + ME