P18CS	O651		Pag	ge No	1		
	U.S.N						
P.E.S. College of Engineering, Mandya - 571 401 (An Autonomous Institution affiliated to VTU, Belagavi) Sixth Semester, B.E Computer Science and Engineering Semester End Examination; July / Aug 2022 Python Programming Time: 3 hrs							
Course Outcomes							
The Students will be able to: CO1: Develop python programs using modular approach. CO2: Demonstrate proficiency in handling Strings and File Systems. CO3: Implement Python Programs using data structures. CO4: Develop application using object oriented and database concepts. CO5: Create graphical user interface for the applications. Note: I) PART - A is compulsory. Two marks for each question. II) PART - B: Answer any Two sub questions (from a, b, c) for a Maximum of 18 marks from each unit. Q. No. Questions							
	I : PART - A	10	225	005	1 0 0		
I a.	What is the output of this code?	2	L1	CO1	1,2,3,5		
	>>> int("30" + "40")	-	L 1	001	1,2,3,3		
b.	How many numbers will be printed? i = 10 while True; print(i) i = i - 1 if $i \le 1$:	2	L1	CO2	1,2,3,5		
C	break Compare append () and insert () methods of list.	2	L4	CO3	1,2,3,5		
с. d.	Define class instantiation.	2	L4 L1		1,2,3,5		
	List any two turtle methods.	2			1,2,5,5		
0.	II : PART - B	2 90	L1	005	1,5,5		
	UNIT - I	18					
1 a.		9	L2	CO1	1,2,3,5		
b.	Write a program to calculate basic arithmetic operations taking two numbers as arguments.	9	L4	CO1	1,2,3,5		
c.	Write a function is_leap_year which takes the year as its argument and checks whether the year is a leap year or not and then displays the appropriate year.		L4	CO1	1,2,3,5		
	UNIT - II	18					
2 a.	Write a program to print Fibonacci series.	9	L4	CO2	1,2,3,5		
b.	Explain opening and closing of a file. Write a program for each file operation.	9	L4	CO2	1,2,3,5		
с.	Explain len () function. Write a program to find the length of the string.	9	L4	CO2	1,2,3,5		
	Contd 2						

P18CSO651			Page No 2	
	UNIT - III	18		
3 a.	Define dictionary. Explain;			
	i) Creating a dictionary	9	L2 CO3 1,2,3,5	
	ii) Accessing values with examples			
b.	Define list. Explain sort () and write a program to sort elements in	9	L4 CO3 1,2,3,5	
	ascending order)	LH CO5 1,2,3,5	
c.	Define tuple. List advantages of tuple over list.	9	L1 CO3 1,2,3,5	
	UNIT - IV	18		
4 a.	Define inheritance. Explain the types of inheritance.	9	L1 CO4 1,3	
b.	Write a program that has a class point with attributes as X and Y			
	co-ordinates. Make two objects of this class and find the midpoint of	9	L4 CO4 1,2,3,5	
	both the points.			
c.	What is operator overloading in python? Explain with help of program.	9	L4 CO4 1,2,3,5	
	UNIT - V	18		
5 a.	Explain the benefits of pickling objects for file storage with example.	9	L2 CO5 3,5	
b.	Explain random walk in turtle. Write a program that defines a function			
	random walk that expects as arguments a turtle object, the number of	9	L2 CO5 1,3,5	
	turns and distance to move after each turn			
c.	Write a program that draws a radial pattern of squares in a random fill	9	L4 CO5 1,3,5	
	color at each corner of the window.	,	2. 000 1,0,0	

* * * *