P18CS	O651		Рад	je No	1			
	U.S.N							
F.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							
CO1: D CO2: D CO3: In CO4: D CO5: C <u>Note</u> : I)	dents will be able to: Develop python programs using modular approach. Demonstrate proficiency in handling Strings and File Systems. Inplement Python Programs using data structures. Develop application using object oriented and database concepts. Develop application using object oriented and database concepts.	rrks from	each	unit				
Q. No.	Questions	Marks			POs			
	I : PART - A	10						
I a.	What is the output of this code? >>> int("30" + "40")	2	L1	CO1	1,2,3,5			
b.	How many numbers will be printed? i = 10 while True; print(i) i = i - 1 if $i \le 1$: break	2	L1	CO2	1,2,3,5			
c.	Compare append () and insert () methods of list.	2	L4	CO3	1,2,3,5			
d.	Define class instantiation.	2	L1	CO4	1,2,3,5			
e.	List any two turtle methods.	2	L1	CO5	1,3,5			
	II : PART - B	90						
	UNIT - I	18		a a :				
	Explain if elif, for and while, statement in python with example for each. Write a program to calculate basic arithmetic operations taking two	9			1,2,3,5			
	numbers as arguments.	9	L4	COI	1,2,3,5			
с.	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.	9	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			
C	Explain len () function. Write a program to find the length of the string	0	Ι <i>Λ</i>	CO^{2}	1235			

c. Explain len () function. Write a program to find the length of the string. L4 CO2 1,2,3,5 9

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	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 ascending order	9	L4 CO3 1,2,3,5		
с.	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.)	LA COJ 1,3,3		

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