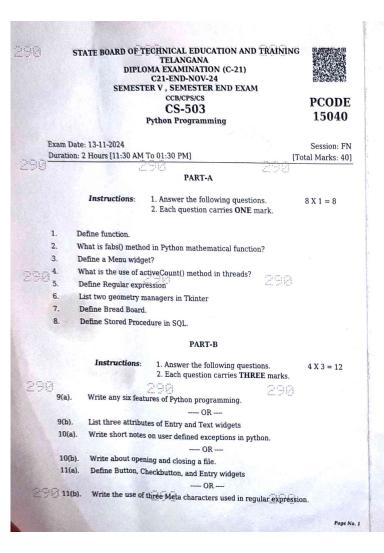
	DIPL	TEGHNICAL EDUCATION AND TRAINING TELANGANA OMA EXAMINATION (C-21) AUG-24 MESTER V, MID-I EXAM CCB/CPS/CS CS-503 Python Programming	PCODE 15040	8(a).	Explain different ways to execute Pyth Explain recursion and write a python natural number 'n' using recursive fun —— OR-Explain the indentation in python progression.	program to find factorial of a give ction.
	Date: 13-08-2024 ion: 1 Hour [10:00 AM T	2 11 00 AM	Session: FN			
OF THE		Dec 157	otal Marks: 20]	W. W. 10		
		PART-A			290	298
	Instructions:	Answer the following questions.     Each question carries ONE mark.	4 X 1 = 4			
1.	List any two versions	of Python.				
2.	Define IOT					
3.	What is the affect of n	nultiplying a list by an integer?			The state of the s	
4.	List any two decision	making statements available in python.				
		PART-B		290	290	298
	Instructions:	Answer the following questions.     Each question carries <b>THREE</b> marks.	2 X 3 = 6			
5(a).	Write any three dem	erits of IOT?				
		OR				
5(b).	Write a short notes of	on GPIO header on Raspberry Pi.				
6(a).	Compare recursive a	and iterative way of problem solving.				
		OR		293	290	290
6(b).	Explain variable leng	th arguments and default arguments to metho	ods			
		PART-C				
	Instructions:	Answer the following questions.     Each question carries FIVE marks.	2 X 5 = 10	erene Leksakeren oa		
7(a),	Explain the procedur	e to install operating system into Raspberry Pi 				

	STATE BOARD OF TECHNICAL EDUCATION AND TRAINING TELANGANA DIPLOMA EXAMINATION (C-21) SEP-24	0.70 0.71 0.71 0.71 0.71 0.71 0.71	290	Instructions: Answer the following questions: 2 X 5 2. Each question carries FIVE marks.		
	SEMESTER V, MID-II EXAM CCB/CPS/CS CC FO2	PCODE		Write a Python program to demonstrate Multiple Inheritance OR		
	CS-503 Python Programming	15040	7(b).	Write a Python Class to convert an integer to a roman numeral.		
			*	Ex: 1000 into M, 500 into D, 10 into X etc.		
		ession: FN Marks: 20]	8(a).	Explain Exception Handling in Python With an example.		
90	Total i	Mar a.s. 20j		290 — or —	an example.	
	PART-A		8(b).	Explain activeCount() methods with an exa		
	Instructions: 1. Answer the following questions. 4 X 2. Each question carries ONE mark.	1 = 4				
1.	What is fabs() method in Python mathematical function?					
2.	What is super() function in Python?					
3.	Define thread synchronization.					
99 <sup>4</sup>	List any two common run time errors 298		290	290	290	
	PART-B					
	Instructions: 1. Answer the following questions. 2 X 2. Each question carries THREE marks.	3 = 6				
5(a).	Write a python script to demonstrate local and global variables.	j				
	OR					
5(b).	Explain the following Classes in datetime module with example.	3				
90	a) date class 290 290		290	290	290	
	b) time class					
	c) datetime class					
6(a).	List any 3 pros and cons of Multithreading.					
6(b).	OR Write about raise keyword in python.					
98	29g <b>PART-C</b> 290		290	298	298	



12(a). Write the steps to connect Raspberry Pi to Wireless network --- OR ---Write short notes on open, close and write functions to work with files. PART-C 1. Answer the following questions. Instructions:  $4 \times 5 = 20$ 2. Each question carries FIVE marks. Explain union, intersection, difference and symmetric difference operations on a set with an example program ---- OR ----13(b). Write a python program to validate an email address using a regular expression 14(a). Explain about thread synchronization with an example program in python. ---- OR ----14(b). Write the steps and Python program to create a buzzing sound using Buzzar and Raspberry PI. 15(a). Write a python program to create a following window 0 × 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 -- OR ----Explain Button widget with an example program. 15(b). Write a python program to rename and delete a file 16(a). ---- OR ----16(b). Write the steps and python program to turn On and Off LED using Raspberry Pi.