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Total no. of Pages:	Roll no.
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Degree: B.Tech Semester: II END-SEMESTER EXAMINATION, APRIL-MAY, 2024

Course Title: COMPUTER PROGRAMING Course Code: FCCS0102

Duration: 03 Hours

Max.Marks: 50

Note: - Attempt all questions. Missing data/information (if any), maybe suitably assumed & mentioned in the answer.

Q. No.	Question	Marks	CO
Q 1	Attempt any 2 parts of the following		
1a	Explain the difference between a set and a tuple. Write a program to create a set consisting of names of students. Search if a particular name entered by the user is present in the set or not. Display appropriate messages.	. 5	COI
16	Write a program to find largest of 4 integers using if-else.	5	C01
1e	Write a function to check if duplicate values exist in a dictionary. If yes, display all the duplicate values.	5	CO1
Q 2	Attempt any 2 parts of the following		
2a	What is inheritance? Explain method overriding with the help of an example.	5	CO2
2b	What is the significance of 'self' parameter in theinit() function. Can we define a class withoutinit() function. Justify your answer with suitable example.	5	CO2
2c	Define a class 'Shop' that stores information about products in the shop. Create object of the class to call the methods of the class. The class should contain the following data members. • name- Name of the Product • selPrice-Selling price of the product • costPrice- Cost price of the Product The class should support the following methods. •init() for initializing data members. • Profit() which calculates the profit • Display() to display the selling price, cost price and the profit	5 r	CO2
Q 3	Attempt any 2 parts of the following		
3a	With the help of regular expression, write a function to find sequences of one upper case letter followed by lower case letters.	5	CO3

	Fied the tant of the first half of both the arrays and product of the second list? of both the arrays.	,	000
Зс	Using Pandas library, create the following dataframe:	5	602
	Name Age Marks	٥	CÕ3
	A Iffice Do		
	A Hipa 23 72 B Tina 20 87	[
	B Tina 20 87 C Mina 19 45		Ì
	D Lina 16 90	·	1
	D Dina 10 90		
<u>, , , , , , , , , , , , , , , , , , , </u>	Display the details at index value B and C.		
Q 4	Attempt any 2 parts of the following		ļ <u>.</u>
4a	Write a program to read the content from a text file "Hello.txt". Count the total number of words in the file and display each word on a separate line.	5	CO4
	Example: If the file contains the following content: This room is big. We are going there.		
	The expected output:		
	Total number of words: 8		[
	This		
	room		}
	is		
	big		
	we		
	are		
	going there		
	Hicto		
4b	What is the difference between 'w', 'a' and 'x' modes in file handling.	5	CO4
4c	Why exception handling is necessary. Write a program to demonstrate the use of multiple 'try' blocks in a single program?	5	CO4
Q 5	Attempt any 2 parts of the following		
Sa	Write short notes on:	5	CO5
	(i) Input tag with all its attributes (ii) Difference between 'get' and 'post'		
5b	Write a program to create a bar graph using matplotlib library for the following data:	5	CO5
İ	No. of students: 56, 78, 65,48	j	
	Average Marks: 60, 70, 80, 90		
	Label the axis as given.		
5c	Create HTML form for a Grocery store that sells two items A and B. The	5	CO5
	data entry operator needs to enter the following fields: Customer Name, Cost of Item A, Cost of Item B. Additionally, the form should have a submit		
	button named "Generate Invoice". Once the Data Entry Operator clicks		
ļ	the "Generate Invoice" button, the Invoice should be generated on the	į	
анадания, предоставления и предоставления и предоставления и предоставления и предоставления и предоставления и предоста	screen as follows (using flask):		
	The amount of item A is Rs. 2000		٠
	The amount of item B is Rs. 3000	-	
	The total amount is Rs. 5000	}	
	Retrieve HTML form data using Flask by showing appropriate URL routing.	j	
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