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QP Code: RM22BTECH149

Reg. No

GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Fourth Semester - Regular) Examinations, May - 2024 **22BCSES24001** – **Fundamentals of Python Programming**

(CSE)

Time: 3 hrs Maximum: 70 Marks

P	(The figures in the right-hand margin indicate marks) $ \mathbf{ART} - \mathbf{A} $	(2 x 5 = 10 Marks)		
Q.1.	Answer ALL questions		CO#	Blooms
a.	TYT 's Could be seen as a set of 4th large Could be seen as a set			Level K1
b.				K2
	tp1=(10,20,30,40,50)			
	tp1.pop(50)			
	print(tp1)			
c.	Write a program to print even-length words in a sentence.	CO2		K2
d.	Write a program to copy the contents of "source.txt" into a file "target.txt".	CO3		K2
e.	How does del operation work on dictionaries? Give an example.		CO2	K1
PA	ART – B	$(15 \times 4 = 60 \text{ Ma})$		arks)
Ansv	wer ANY FIVE the questions	Marks	CO#	Blooms Level
2. a		7	CO1	K1
b	str(), bool()	, 8	CO1	K1
	(OR)			
c	, 1 5 5	7	CO1	K1
d	1 1 1	8	CO1	K1
3.a	,	t 8	CO2	K1
h	the number of occurrences of a character in a string.	7	CO2	K2
b	Write a user-defined function to find the sum of the digits of a number. (OR)	7		K2
C		8	CO2	K1
d	Write a program to generate the shape given below: A	7	CO2	K2
	ABA			
	ABCBA ABCDCBA			
	TIBEDEDIT			
4.a	Define "ZeroDivisionError" in the outer try and "TypeError" in the inner try	7	CO3	K2
	block with an example.			
b	Write a program to create an empty list and input a group of numbers into the list	, 8	CO3	K2
	remove the duplicate elements from it and then sort them in ascending order and	Ĺ		
	then display.			
	(OR)	. 7	CO2	V2
C		t 7	CO3	K2
	within the file and then display them.			

d.	write a program to create a class for a product having member data: product_no, product_name, cost, quantity, total_ amount, and member functions: input(), calculate(), display(). calculate() is used to find total_amount=cost*quantity.	8	COS	K2
5.a.	Input 5 product details and display the product whose total cost is the highest. Write a program to connect Python to MySQL database and perform the	7	CO4	K2
	following operations:			
	→ show the list of tables that exist			
	→ open a table and display all the records			
b.	What is the need of lock in multithreading? Explain the concept of	8	CO4	K2
	synchronization with a suitable example.			
	(OR)			
c.	Write a program to perform the following:	7	CO4	K2
	- Create a database " DB4 "			
	- Create a table " Student " within the database having 3 fields (roll number,			
	name, branch).			
	- Describe the table			
d.	Write a program to create a thread by using all possible methods	8	CO4	K2
	- Using the threading module:			
	- Subclassing the Thread class:			
	- Using a target function			

--- End of Paper ---