HT NO: 7 R

CMR TECHNICAL CAMPUS UGC AUTONOMOUS

B.Tech.III Sem Regular End Examinations, February-2024 Programming with Python

Common to CSE, IT, CSC, CSM, CSD, AIML

Time: 3 Hours

Note

Max. Marks: 60

- i. This Question paper contains Part- A and Part- B.
- ii. All the Questions in Part A are to be answered compulsorily.
- iii. All Questions from Part B are to be answered with internal choice among them.

PART-A

 $10 \times 01 = 10 \text{ Marks}$

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1. a	List various operators used in python?	1	CO1	L1
b	Explain the Input and Output statements in python with examples	1	COI	L2
c	Describe about np.arange(),np.random.randint() with examples?	1	CO2	L1
d	Write a Python program that illustrates negative indexing in a String?	1	CO2	L1
e	What is the major difference between tuples and lists in Python?	1	CO3	L1
f	Describe the Sorting the Elements of a Dictionary using Lambdas?	î	CO3	L1
g	Differentiate between an error and exception?	1	CO4	L4
h i j	What are the Persistent Storage Modules?	1	CO4	L1
	Define Class and Object with suitable examples?	1	CO5	L1
	Describe about thread in python?	1	CO5	L1

PART- B

 $5 \times 10 = 50 \text{ Marks}$

			Marks	CO	BL
2.	a	Explain about bitwise operators and different membership operators in Python with examples?	5	CO1	L2
	b	Explain iterative statements in python with suitable example? OR	5	CO1	L2
3	a	Explain the conditional and the break & continue statement in Python with examples?	5	CO1	L3
	b	Illustrate the various data types used in python with syntax and examples?	5	CO1	L4

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6	4	a	Explain the importance of example	of reshaping numpy arra	y with an	5	CO2	L2	
		b	Explain the following concepts with examples i. Sorting Strings,				CO2	L2	
			Searching Str			5			
	_		D:	OR		5			
	5	a	demonstrate the addition				CO2	L4	
		b	Illustrate the various operations on Strings with suitable programs				CO2	L4	
	6	a	Write a python program using recursive function			5	CO3	L4	
		b	suitable example program.				CO3	L3	
	7	a	Give a comparison between	OR en lists, tuples, and dicti	onaries	5	CO3	L4	
		b	Explain the following with	th examples	onaries	3	CO3	L2	
				gs into Dictionary,			COS	LZ	
		3	ii. Passing Dictionar			5			
	8	a	Discuss the importing mo	dules attributes in pytho	n	5	CO4	L4	
		b	Define exception? and ho defined exceptions in Py	w to create, raise and ha	ndle user	5	CO4	LT	
	^		D 5	OR					
	9	a	Define file? Explain the F syntax and examples			5	CO4	L2	
		b	What s the difference between exception handling? Expl	ween else block and fina ain with an example pro	lly block in gram.	5	CO4	L2	
	10	a	Explain the feature of polexample.	ymorphism in python wi	th an	5	CO5	L2	
		b	Examine the Abstract Cla suitable programs		thon with	5	CO5	L4	
	11	a	Create a class named Pers		nction to	5	CO5	L5	
		b	assign values for name ar Discuss about threading n		uitable a	5	CO5	L5	
	со	: 0	program Course Outcomes					6	
BL		: E	Bloom's Taxonomy Levels	L 1: Remembering	L 2: Und	derstanding			
				L 3: Applying	L 4: Ana	alysing			

L 6: Creating

L 5: Evaluating