CMR TECHNICAL CAMPUS
UGC AUTONOMOUS
B. Tech. IV Semester Regular & SupplyEnd Examinations, July/August-2023
Programming with Python
Common to CSE&IT

Time: 3 Hours

Max. Marks: 70

Note

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.

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PART-A

10 X 02 = 20 Marks

			Marks	CO	BL
1.	a	What does immutable mean and what three types of Python core data types are considered immutable?	2	CO1	L2
	b	What is the output of the following : a=9 b=7 while(a<12): a+1=1	2	CO1	L3
	c	How would you determine the length of an array in Python?Give an example	2	CO2	L4
	d	Wite a python program to accept a string and display each word and its length	2	CO2	L3
	e	Differentiate Del, Remove and Pop on Python Lists?	2	CO3	L1
	f	Write the output of the following(#represents the spaces) >>>str1= " Learn Python Programming" >>>print(len(str1)) >>>str2= "### Learn Python Programming" >>>print(len(str2)) >>>print(len(str2.Istip()))	2	CO3	L3
	g	Write a python program to read first 10 characters from a file named "exam.txt"	2	CO4	L3
	h	How to you handle the exception inside a program when you try to open a non-existent file	2	CO4	L4
	i	What is Compile time Polymorphism and how is it different from Runtime Polymorphism?	2	CO5	L2
	j	Is it possible to create multiple processes from within a single thread? If yes, then how?	2	CO5	L3

PART- B

			Marks	CO	BL
2.	a	Discuss operators in Python with example program	5	CO1	L3
	b	Describe Conditional statements in Python along with syntax	5	CO1	L3
		OR			
3	a	Write a program to demonstrate different number datatypes in Python	5	CO1	L3
	b	Write the difference between Local Variable with Global Variable with example	5	CO1	L3
4	a	Write a Python Program to demonstrate array creation techniques using a)List b)Tuple	5	CO2	L3
	b	Describe the methods and operations of Dictionaries.	5	CO2	L2
		OR			
5	a	Write a program to create ,concatenate, and print a string .	5	CO2	L3
	b	Python strings are immutable. Justify with an example program.	5	CO2	L2
6	a	What is a Python Tuple? What are the advantages of Tuple over list?	3	CO3	L2
	b	Analyze the basic list operations in detail with necessary programs.	7	CO3	L3
		OR			
7	a	List the different types of arguments / parameters used in function with suitable examples.	3	CO3	L3
	b	What are the methods used to copy dictionaries? Write a program to copy the dictionary using those methods	7	CO3	L2
8	a	Describe renaming and deleting a file in python	5	CO4	L2
	b	Implement a program to write a data in a file for both write and append modes.	5	CO4	L3
		OR			
9	a	Describe with an example exceptions with arguments in python	5	CO4	L2
	b	Describe the use of try block and except block in python with syntax	5	CO4	L3
10	a	Write short nots on Abstract Classes and Interfaces	5	CO5	L1
	b	Write a suitable program for regular expressins using python	5	CO5	L3
		OR			
11	a	Write short notes on Thread class methods along with description	5	CO5	L1
	b	Explain the procedure to create Thread using Thread Module	5	CO5	L3

CO   : Course Outcomes

BL   : Bloom's Taxonomy Levels L 1 : Remembering   L 2 : Understanding

L 3 : Applying   L 4 : Analysing

L 5 : Evaluating   L 6 : Creating