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M23BPLCK105B/205B



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

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Approved by AICTE, New Delhi [Recognized by Govt. of Karnataka]



First / Second Semester B.E Degree Examination, July/August-2024
INTRODUCTION TO PYTHON PROGRAMMING

Duration: 3 hrs

Max. Marks: 100

Note: 1) Answer any FIVE full question, choosing atleast ONE from each part
2) M: Marks, C: Course Outcomes, L: Bloom's Level

Sl. No.	Questions	M	C	L
Module 1				
1 a)	Explain the Rules to be followed while defining the python identifier functions with suitable programming example.	8	1	L2
b)	What is a Decision making statement? Discuss if and if else statements with flow chart.	6	1	L2
c)	Explain the Expression and statement in Python programming with suitable for programming example.	6	1	L2
OR				
2 a)	Explain the Indentation, Floor Division and comments with suitable example	8	1	L2
b)	Discuss the input and output statements with programming examples.	6	1	L2
c)	Describe the Data types available with suitable programming examples.	6	1	L2
Module 2				
3 a)	Discuss the List data type and slicing concept with suitable programming examples.	10	2	L2
b)	List and Explain any 5 built in function on list with programming example.	10	2	L2
OR				
4 a)	Explain the following with programming examples. i) pop() ii) list() iii) append() iv) extended () v) insert()	10	2	L2
b)	Explain the following with programming examples. i) count() ii) index() iii) keys() iv) values() v) items()	10	2	L2
Module 3				
5 a)	Explain the following with programming example. 1. mkdir() 2. join() 3. Absolute path 4. Relative path 5. In operator	10	3	L2
b)	Develop a program to print 10 most frequently appearing words in a text file. [Hint: Use dictionary with distinct words and their frequency of occurrences. Sort the dictionary in the reverse order of frequency and display dictionary slice of first 10 items]	10	4	L3
OR				
6 a)	Explain the following with suitable programming examples. 1. strip() 2. rstrip() 3. lstrip() 4. pyperclip module	10	3	L2
b)	Develop a program to sort the contents of a text file and write the sorted contents into a separate text file.	10	4	L3
Module 4				
7 a)	Discuss the shutil module using suitable programming example.	10	2	L2
b)	Develop a python program that uses os.walk to list all files in a directory and its	10	4	L3

	subdirectories. Develop the code and explain how os.walk works.			
OR				
8 a)	Explain Assertion and logging with suitable example	10	2	L2
b)	Develop a program to backing Up a given Folder (Folder in a currentworking directory) into a ZIP File by using relevant modules and suitableMethods	10	4	L3
Module 5				
9 a)	Describe attributes and user-defined type with an example.	10	3	L2
b)	Discuss the following with a suitable programming example. i) Instances as return values ii) copy and deepcopy ()	10	3	L2
OR				
10a)	Explain the pure function () and illustrate a function to print time in HH:MM:SS format and another function to add two time objects.	10	3	L2
b)	Develop a program that uses class Student which prompts the user to enter marks in three subjects and calculates total marks, percentage and displays the score card details.	10	4	L4