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Course Code 

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**Second Semester MCA Degree Examinations, November 2024**  
**INTRODUCTION TO PYTHON**

Duration: 3 hrs

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.  
2. Missing data, if any, may be suitably assumed

<u>Q. No</u>	<u>Question</u>	<u>Marks</u>	<u>(RBTL:CO: PI)</u>
<b><u>MODULE – 1</u></b>			
1.	a. Explain the chained and nested conditional execution statement along with syntax and flow chart.	10	(2:1:1.6.1)
	b. Demonstrate the use of break and continue keywords in python.	10	(2:1:2.5.2)
(OR)			
2.	a. How python handles exception? Explain with an programming example.	10	(2:1:2.5.2)
	b. Explain with example fruitful and void fruitful functions in python.	10	(2:1:1.6.1)
<b><u>MODULE – 2</u></b>			
3.	a. Explain definite and indefinite loops in python with example.	10	(2:2:1.6.1)
	b. What is the output of the following? s='Monty Python'	10	(3:2:2.5.2)
	(i) s[:] (iv) s[-7:-2]	(ii) s[:6] (v) s[:-5]	(iii) s[4:9]
(OR)			
4.	a. Explain any five built in string operations in python.	10	(2:2:1.6.1)
	b. Write a python program to read the content from a file and count the frequency of occurrence of each character.	10	(3:2:2.5.2)
<b><u>MODULE – 3</u></b>			
5.	a. What are lists? Explain any four list methods with examples.	10	(2:3:1.6.1)
	b. Explain advanced text parsing in dictionaries with example.	10	(2:3:2.5.2)
(OR)			
6.	a. Explain with example the methods used to delete an element from a list.	10	(2:3:1.6.1)
	b. Explain all the operations in dictionaries with example.	10	(2:3:1.6.1)
<b><u>MODULE – 4</u></b>			
7.	a. Define tuple? Explain different ways to create a tuple with an example.	10	(2:4:1.6.1)
	b. Write a python program that uses regular expression to search for lines that start with from and have an @ sign.	10	(3:4:2.5.2)
(OR)			
8.	a. Explain greedy and non-greedy matching in python.	10	(2:4:1.6.1)
	b. Write a program to extract only email-ID's in a text file. Use suitable regular expression.	10	(3:4:2.5.2)

**MODULE – 5**

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|-------------|---|-----------|-------------|
| <b>9.</b>   | <b>a.</b> Explain init() method and str() method with an example program. | <b>10</b> | (2:5:1.6.1) |
|             | <b>b.</b> Explain pure functions and modifiers with an example.           | <b>10</b> | (2:5:1.6.1) |
| <b>(OR)</b> |   |           |             |
| <b>10.</b>  | <b>a.</b> Explain copy( ) or shallow copy and deepcopy( ) in python.      | <b>10</b> | (2:5:1.6.1) |
|             | <b>b.</b> Explain type-based dispatch with example program.               | <b>10</b> | (2:5:1.6.1) |

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