

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)**

**CLASS: BCA  
BRANCH: BCA**

**SEMESTER : V  
SESSION : MO/2024**

**SUBJECT: CA309 INTRODUCTION TO PYTHON PROGRAMMING**

**TIME: 3 Hours**

**FULL MARKS: 50**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	What are expressions in Python? What operators does python support? Explain floor division with suitable example.	[5] 1	1
Q.1(b)	Write a program that prompts the user to enter a four-digit integer and displays the number in reverse order.	[5] 1	3
Q.2(a)	Define floor(), ceil() and trunc() function and use floor(), ceil() and trunc() function for numbers -3.9, -0.75, 0.1, 1.75, 3.9.	[5] 1	2
Q.2(b)	Illustrate the difference between for and while loop. Write a program in python to obtain maximum among three numbers.	[5] 2	2
Q.3(a)	Define the trem function header, parameter and argument. Give examples.	[5] 2	1
Q.3(b)	Given <code>lst = [3, 10, 22, 34, 11, 0]</code> , how many elements are in <code>lst</code> ? What is the index of the first element and last element in <code>lst</code> ? What is <code>lst[2]</code> and <code>lst[-2]</code> ?	[5] 1	3
Q.4(a)	Explain set in Python. Explain the different set operations with suitable examples.	[5] 2	2
Q.4(b)	Each item in a dictionary has two parts. What are they called? Write functions to manipulate dictionary.	[5] 2	2
Q.5(a)	Write Python program to demonstrate Multiple Inheritance.	[5] 4	3
Q.5(b)	Explain try, except and finally in Exceptional handling with examples.	[5] 3	2

**:::::21/11/2024 M:::::**