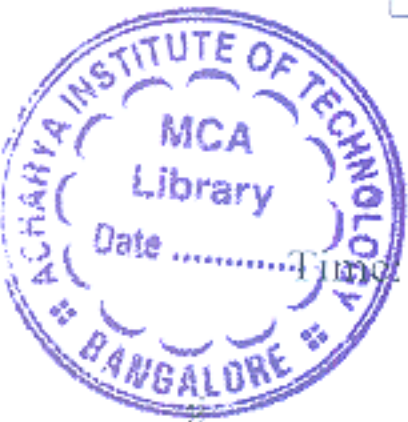


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**Third Semester MBA Degree Examination, June/July 2025**  
**Introduction to Python Data and Control Systems**

Time: 3 hrs.

Max. Marks: 100

**Note: 1. Answer any FOUR full questions from Q.No.1 to Q.No.7.**  
**2. Question No. 8 is compulsory.**

- 1
  - a. What is an algorithm? (03 Marks)
  - b. Explain in detail the computer hardware architecture. Draw the diagram related to same. (07 Marks)
  - c. Explain why python is considered as interpreted language. (10 Marks)
- 2
  - a. What is a variable in python? (03 Marks)
  - b. How do conditional statements work in python? (07 Marks)
  - c. What are the different flow control statements supports in python. Explain any 3 with an suitable example program and flow chart. (10 Marks)
- 3
  - a. What are Boolean values? (03 Marks)
  - b. What is flow control statement? Discuss if and if else statements with examples. (07 Marks)
  - c. What is difference between break and continue in python? Explain with suitable examples. (10 Marks)
- 4
  - a. What is a function? (03 Marks)
  - b. What is local and global scope of variable in python? Explain the different scenarios with an example snippet. (07 Marks)
  - c. List out any five string methods which supports in python. Explain with example for each method. (10 Marks)
- 5
  - a. What is a tuple? (03 Marks)
  - b. What is list mutability in python? Explain with an example. (07 Marks)
  - c. Mention any 5 list methods. Explain each in detail. (10 Marks)
- 6
  - a. Define cloning in list. (03 Marks)
  - b. Explain while loop with an example. (07 Marks)
  - c. Write a program to find the sum of digits of a number and to find the factorial of given numbers. (10 Marks)
- 7
  - a. Write a python program that writes "Hello World" into a file. (03 Marks)
  - b. What are the error messages that are displayed for the following exceptions? (07 Marks)
  - c. Mention the different modes of programming. Explain interactive mode programming in detail with the program. (10 Marks)
- 8 **Compulsory**
  - a. List the salient features of python programming language. (05 Marks)
  - b. Write a python program to calculate the area of circle, rectangular and triangle, print the results. (05 Marks)
  - c. What is difference between break and continue in python? (05 Marks)
  - d. List any four file operations. (05 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.