

Total number of printed pages-4

1 (SEM-4/FYUGP) CIT04/-N

2026

**COMPUTER APPLICATION/
INFORMATION TECHNOLOGY**

Paper : CIT0400404-N/CIT0400404
(Python Programming)

Full Marks : 45

Time : 2 hours

*The figures in the margin indicate
full marks for the questions.*

Answer the following questions : $1 \times 5 = 5$

- 1) Python is _____ language.
- 2) A variable name is case-sensitive.
(True or False)

- 3) What is Python Dictionary?
- 4) Give an example of mutable object.
- 5) What is the output of "print((2**6)**2)"?

Answer **any five** questions from the following: $2 \times 5 = 10$

What is indentation? Why it is important in Python?

Explain the rules for naming identifiers in Python.

What are the core datatypes in Python?

What are command line arguments?

Define class with proper example.

What is operator precedence in Python?

What are built in function in Python?

Define inheritance.

- (i) What is list datatype in Python? Give example.
- (j) What are the different database operations?

3. Answer **any four** questions from the following : $5 \times 4 = 20$

- (a) Differentiate between Logical and Relational operators with example.
- (b) What is recursion explain with example?
- (c) What do you mean by scope of variables in Python?
- (d) What is user defined exceptions? How they differ from built in exceptions?
- (e) What is string slicing in python? Explain with proper example.
- (f) Write structure of a Python program explain every line.
- (g) Write *two* operations in Python SQL database access.

(h) Define argument and parameters in Python with example.

4. Answer **any one** question from the following:
 $10 \times 1 = 10$

(a) Write a Python program to find reverse of an integer number.

(b) What is exception handling in Python? Explain try, except, finally and raise with examples.

(c) What is string slicing in python? Explain with proper example.

(d) Write a Python program to find Fibonacci series to a given number of terms.

(e) Explain different types of file modes in Python with examples.