



NP – 410

**III Semester B.C.A. Examination, January/February 2026  
(NEP Scheme)  
COMPUTER APPLICATION  
Python Programming**

Time : 2½ Hours

Max. Marks : 60

**Instruction :** Answer **any four** questions from **each** Part.

**PART – A**

- I. Answer **any 4** questions. **Each** question carries **2** marks. **(4×2=8)**
- 1) What are the benefits of using Python ?
  - 2) Mention the difference between actual arguments and formal arguments.
  - 3) What is slicing ?
  - 4) Define Dictionary.
  - 5) What is a CSV file in Python ?
  - 6) What is the use of Matplotlib Library ?



**PART – B**

- II. Answer **any 4** questions. **Each** question carries **5** marks. **(4×5=20)**
- 7) Explain the steps to create and read a text file in Python.
  - 8) Discuss the built-in functions used on Tuples.
  - 9) Explain zip( ) function with an example.
  - 10) Write a Python program to print a number is positive/negative using if-else.
  - 11) Explain the types of visualizations in Matplotlib.
  - 12) Explain the importance and advantages of Github.

P.T.O.



## PART – C

III. Answer **any 4** questions. **Each** question carries **8** marks.

(4×8=32)

- 13) Explain the different types of decision making control flow statement in Python with examples.
- 14) a) Discuss the different types of files in Python. 4  
b) Explain encapsulation using private variables. 4
- 15) a) Explain access modifiers in Python. 4  
b) Explain command line arguments. 4
- 16) Explain serialization and deserialization. What is Pickling ?
- 17) a) Explain the concept of duck typing in Python. 4  
b) Explain the Plot( ) method parameters for customizing a line graph. 4
- 18) a) What is JSON ? Explain different JSON formats. 4  
b) Write a Python program to concatenate the data frame with two different objects. 4
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