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VI Semester B.Sc. Examination, June/July 2025
(NEP Scheme) (F+R)
COMPUTER SCIENCE
CS 13 : Python Programming

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer *all* the Sections.

SECTION – A

I. Answer **any four** questions. **Each** question carries **two** marks. (4×2=8)

- 1) Define command-line arguments in Python.
- 2) What are the built in functions used on lists in Python ?
- 3) What is pickling and unpickling ?
- 4) What is dictionary ?
- 5) What is encapsulation ?
- 6) What is the use of matplotlib lib ?



SECTION – B

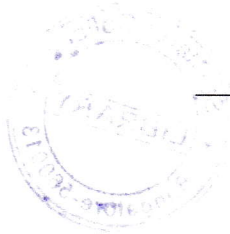
II. Answer **any four** questions. **Each** question carries **five** marks. (4×5=20)

- 7) Explain the basic string operations.
- 8) Explain the concept of indexing and slicing in tuples.
- 9) Explain frozenset with an example.
- 10) Explain about class attributes versus data attributes.
- 11) Explain any two types of inheritance with an example.
- 12) Explain about the mapping global data sets.



SECTION – C

- III. Answer **any four** questions. **Each** question carries **eight** marks. **(4×8=32)**
- 13) Explain control flow statements with an example in Python. **8**
- 14) a) Explain about string slicing and joining. **4**
b) Explain the steps reading and writing CSV files in Python. **4**
- 15) a) What are the relations between tuples and lists ? **4**
b) Explain about SET, SET methods. **4**
- 16) a) What are the different types of files in Python ? **4**
b) Explain Seek() and Tell() functions. **4**
- 17) a) Explain the steps to create classes and objects in Python. **4**
b) Explain polymorphism with an example. **4**
- 18) a) Explain data visualization with necessary tools in Python. **4**
b) Write a short note on API's. **4**



SECTION – B