



NP – 318

29
III Semester B.C.A. Degree Examination, March/April 2023
(NEP) (Freshers) (2022-23 and Onwards)
COMPUTER SCIENCE
Python Programming

Time : 2½ Hours

Max. Marks : 60

Instruction : Answer *all* the Parts.



PART – A

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

1. Why python is an interpreted language ?
2. Explain membership operators.
3. What is a tuple ? Give an example.
4. Define encapsulation and inheritance.
5. What is constructor method in python ?
6. What is a file ? Mention the type of files.

PART – B

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

7. Explain the features of python.
8. What is string slicing in python ? Explain with examples.
9. What is the difference between lists and tuples ? Explain with examples.
10. Explain how you create classes and objects in python.
11. Explain different file modes in python.
12. What is data visualization ? List the libraries that are used for data visualization in python.

P.T.O.



PART – C

Answer **any 4** questions. **Each** question carries **8** marks : **(4×8=32)**

13. a) What are tokens ? Explain various tokens in python with examples. 4
b) Explain core data types in python. 4
14. What are functions ? How to define and call a function in python ? Explain with example. 8
15. a) Explain if... elif... else control flow statement with example. 4
b) Write a program to perform indexing and slicing in lists. 4
16. How do you perform reading and writing files in python ? Explain with an example program. 8
17. Define pickling in python. Explain serialization and deserialization. 8
18. a) Explain matplotlib. 4
b) Write python code to create a simple plot using matplotlib module. 4
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