

NOVEMBER 2023

**52501/125C1A/
120C1A/127C1A/
126C1A/141C1A**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Define: “Computer Software”.
2. What are the advantages of computer algorithms?
3. How will you declare a variable in python?
4. What do you mean by Boolean expressions?
5. State the purpose of indentation in Python.
6. What is string?
7. Mention the uses of calling value.
8. Comment on variable scope.
9. Show the advantages of software objects.
10. What is top-down design?
11. Write a note on encapsulation.
12. Define the term “NumPy”.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Describe the essence of computational problem solving.
14. Explain the various types of operators in python.
15. Distinguish between the definite and indefinite loops.
16. Summarize the building blocks of python programs.
17. Elaborate the steps to reading and writing text files.
18. Point out the advantages of inheritance.
19. What are the dictionary types in Python? Explain.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Illustrate the different types of literals available in python with example.
21. Discuss the syntax and example for the While statement in python.

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22. Outline the need of default arguments in python.
 23. Evaluate the methods used in Turtle graphics.
 24. Determine the built-in functions of packages matplotlib.
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