NOVEMBER 2025 **52501/125C1A/ 141C1A/120C1A/ 127C1A/126C1A**

Time : Three hours Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. Define: “Computer Hardware”.

2. What are the salient features of Python programming language?

3. How to define a variable in python? Give example.

4. Comment on Boolean Flag.

5. State the purpose of strings in python.

6. Give the general form of infinite loops.

7. Define: “Recursion”.

8. What is variable scope?

9. How to open a text files?

10. What do you mean by software objects?

11. Write a note on polymorphism.

12. Define the term “NumPy”.

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Identify the essence of computational problem solving.

14. Outline the different types of literals in python language.

15. How to insert elements in the list? Explain.

16. Distinguish between the definite and indefinite loops.

17. Explain the declaration of recursive functions with example.

18. What are the attributes of Turtle? Explain.

19. Elucidate the need of dictionary type in python.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. Discuss the different types of operators in python.

21. Explain the structure of while loop statement with example.

22. Discover the use of default arguments in python.

23. Illustrate the exception handling mechanism in python program.

24. Write a Python program to check given string is Palindrome or not.

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