Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer any TEN questions.

1. What do you mean by Traveling Salesman problem?

2. Define: "Main Memory".

3. What is computer software?

4. Write the use of selection control statement.

5. Write a note on definite loop.

6. What is a list?

7. What is value-returning function?

8. Distinguish between the positional argument and keyword argument.

9. Define: "Reference".

10. What do you mean by Turtle graphics?

11. What is a class?

12. Define the term "Dictionary".

PART B — (5 × 5 = 25 marks)

Answer any FIVE questions.

13. Summarize the essence of computational problem solving.

14. Elaborate the operator precedence of arithmetic operators in Python.

15. Explain the nested if statements in Python with example.

16. What are the common list operations in Python? Explain.

17. Describe the calling value-returning functions with example.

18. Explain the use of modular design in software development.

19. Write down the set data type in Python.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

20. What are the arithmetic operators in Python? Explain with example.

21. Illustrate the lists and other sequence types in Python.

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22. Discuss the default arguments in Python with example.

23. Explain the exception handling mechanism used in Python.

24. How will you define subclasses in Python? Explain.

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