



QP CODE: 24803824



24803824

Reg No :

Name :

INTEGRATED MSC DEGREE EXAMINATION, JULY 2024

Fourth Semester

INTEGRATED MSC BASIC SCIENCE-STATISTICS

COMPLEMENTARY - IST4CM05 - COMPUTER SCIENCE IV PYTHON

PROGRAMMING

2020 Admission Onwards

4FBB56DE

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is Python scientific notations ?
2. What are loops in Python ?
3. What does Python interpreter do ?
4. Describe features of user-defined function in Python.
5. How we can reverse order of list items?
6. Define Python sequences.
7. Define abstraction in Python.
8. Write any three meta characters in Python.
9. What is NumPy ?
10. How does fancy indexing work?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain simple strategies for developing algorithms.
12. Describe the concept of module in Python.
13. Explain in detail about jumping statements in Python.





14. Differentiate between multiple inheritance and hierarchical inheritance.
15. Demonstrate catching exceptions in Python.
16. How to join NumPy arrays? Explain with an example.
17. Explain the methods to carry out boolean masking in Python.
18. Distinguish between indexing and slicing in Pandas.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Explain in detail about flowchart and its symbols.
20. Define a list. Discuss list operations in detail with suitable examples.
21. Define Python frozen set. Describe its functions with an example.
22. Explain hierarchical indexing and its uses in detail.

(2×5=10 weightage)

