

Model Question Paper
First Semester MSc Degree Examination
Statistics with Specialization in Data Analytics
(2020 Admission onwards)

STSD 214 STATISTICAL PROGRAMMING USING PYTHON

Time 3 hours

Max: 75 marks

Part- A

(Answer any **FIVE** questions, each carries **3** marks)

1. What are keywords? Give examples.
2. What do you mean by Boolean type variable? Give examples.
3. Give any three methods with list. Explain them.
4. What do you mean by immutable objects?
5. What are fruitful functions?
6. What is the use of PIP?
7. What is a database? Explain.
8. How do you create Python file?
9. What is a library? Give examples.
10. Give applications of matplotlib in Python.

Part-B

(Answer any **THREE** questions, each carries **12** marks)

11. Explain the usage of different data types in Python.
12. What are the different operators used in Python? Illustrate them.
13. Explain in detail lists and tuples in Python. What are the important methods associated with them?
14. Write short notes on: (I) Sets (ii) dictionaries
15. Explain the concept of functions in Python.
16. Describe modules in Python.

Part-C

(Answer any **TWO** questions, each carries **12** marks)

17. What are Python files? Describe important file operations.
18. How can one use SQLite and MySQL databases with Python? Explain.
19. Explain the applications of Matplotlib and Seaborn libraries in Python.
20. What are the uses of Pandas library. Give details with examples.
