



K24N 0167

Reg. No. :

Name :

**Second Semester M.Sc. Degree (CBSS – Regular/Supplementary/
Improvement) Examination, April 2024**

(2022 Admission Onwards)

STATISTICS WITH DATA ANALYTICS

MST2C08 : Statistics Using Python Programming

Time : 3 Hours

Max. Marks : 80

PART – A

Answer **all** questions. **Each** carries 2 marks.

1. What is the utility of "sep" argument in print() function ?
2. Give a simple example which illustrates the use of float() function.
3. Distinguish between in-built function and user-defined function.
4. Give an example of function without arguments.
5. What is the use of append function used in the list ?
6. How can we add rows to a dataframe ?
7. Name the libraries used for data visualisation in python.
8. What are the uses of plot() function ?

(8×2=16)

PART – B

Answer **any four** questions. **Each** carries 4 marks.

9. Explain the utility of nested "if" statement with the help of an example.
10. What are the different types of errors in Python ? Explain.
11. What are Python modules ? What are the some commonly used built-in modules in Python ?
12. Illustrate the utility of relational operators in filtering data from a dataframe.
13. Explain various methods to import data from files of different types of softwares using Pandas Library.
14. Explain the method of creating different bar charts on one image.

(4×4=16)

P.T.O.



PART – C

Answer **any four** questions. **Each** carries **12** marks.

15. Explain various arithmetic and relational operators in python with examples.
16. a) Create a user defined function to calculate compound interest.
b) Design a user defined function in Python to print 100 Fibonacci numbers.
17. Explain the benefits of object-oriented programming.
18. Explain the following data structures and their manipulations : (a) Tuples
(b) Dictionaries.
19. Explain the methods in python to handle missing observations in a data. Illustrate with an example.
20. Write syntax to create the following considering a data of your choice :
a) scatter plot
b) histogram.

(4×12=48)

