



K24N 0004

Reg. No. :

Name :

II Semester M.Sc. Degree (C.B.S.S. – Regular) Examination, April 2023
(2022 Admission)

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. How can we represent comments in Python ?
2. Give a simple example which illustrates the use of `int ()` function.
3. Describe list in python with an example.
4. What is recursive function ?
5. What is the use of `zip ()` function inside the `dict ()` function ?
6. How can we extract a specified row from a data frame ?
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. Write a program to show the utility of if-else-if ladder.
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. Discuss different ways to create a dictionary.

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13. Explain various methods to import data from files of different types of softwares using Pandas Library.
14. Explain the method to add title and to set limits for x axis and y axis in a plot. (4×4=16)

PART – C

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

15. Explain various arithmetic and assignment operators in python with examples.
16. a) Design a user defined function in Python to print 50 Fibonacci numbers.
b) Create a function to determine whether each letter in a string is a vowel.
17. Explain inheritance. What are its advantages ? Give an example to illustrate how inheritance works in Python.
18. Explain the following data structures and their manipulations :
 - a) Lists
 - b) Tuples.
19. Explain the method 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) multiple bar chart
 - b) cumulative frequency curve

(4×12=48)