Bachelor of Commerce

B.Com

CHOICE BASED CREDIT SYSTEM

BCOC – 134: BUSINESS MATHEMATICS AND STATISTICS

ASSIGNMENT

2022-2023

Valid from 1st January 2023 to 31st December 2023

Second Semester

ignou
THE PEOPLE'S
UNIVERSITY

School of Management Studies

Indira Gandhi National Open University

Maidan Garhi, New Delhi -110068

BACHELOR OF COMMERCE
CHOICE BASED CREDIT SYSTEM
BCOC – 134: BUSINESS MATHEMATICS AND STATISTICS

ASSIGNMENT: 2022-23

Dear Students,

As explained in the Programme Guide, you have to do one Tutor Marked Assignment in this Course. The assignment has been divided into three sections. Section A Consists of long answer questions for 10 marks each, Section B consists of medium answer questions for 6 marks each and Section C consists of short answer questions for 5 marks each.

Assignment is given 30% weightage in the final assessment. To be eligible to appear in the Term-end examination, it is compulsory for you to submit the assignment as per the schedule. Before attempting the assignments, you should carefully read the instructions given in the Programme Guide.

1. Those students who are appearing in June 2023 Term End Examination they have to submit latest by in 15 March 2023.
2. Those students who are appearing in December 2023 exams. They should download the new assignment and submit the same latest by 15 October 2023.

You have to submit the assignment of all the courses to the Coordinator of your Study Centre.

TUTOR MARKED ASSIGNMENT

COURSE CODE	:	**BCOC – 134**
COURSE TITLE	:	**BUSINESS MATHEMATICS AND STATISTICS**
ASSIGNMENT CODE	:	**BCOC – 134/TMA/2022-23**
COVERAGE	:	**ALL BLOCKS**

Maximum Marks: 100

Note: Attempt all the questions.

Section – A

Q. 1 Differentiate between Descriptive and Inferential statistics. **(10)**

Q. 2 Explain functions and importance of Statistics. **(10)**

Q. 3 Discuss various preliminary adjustments that are necessary to do before analysing a time series data. **(10)**

Q. 4 Explain with example the properties of matrix multiplication. **(10)**

Q. 5 Why do we prefer standard deviation to quartile deviation as a measure of dispersion? **(10)**

Section – B

Q. 6 What are the rules of differentiation? Explain it with examples. **(6)**

Q. 7 At what rate percent compound interest per annum with Rs. 640 amount to Rs. 774.40 in 2 years? **(6)**

Q. 8 Solve the following equations by using Cramer's Rule. **(6)**
$x-2y = 11$
$7x-4y = 27$

Q. 9 State the characteristics of good measure of variation. **(6)**

Q.10 What do you mean by method of factorization and method of substitution? **(6)**

Section – C

Q.11 Write short notes on the following: **(5×2)**
  (a) Regression
  (b) Time series

Q.12 Differentiate between the following: **(5×2)**
  (a) Positive correlation and negative correlation
  (b) Geometric mean and harmonic mean