

MS-08

**Management Programme (MP) / Master of Business Administration
(Banking & Finance) (MPB)**

**ASSIGNMENT
For
January 2024 and July 2024 Sessions**

MS-08: Quantitative Analysis for Managerial Applications

**(Last date of submission for January 2024 session is 30th April, 2024
and for July 2024 sessions is 31st October, 2024)**



**School of Management Studies
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI – 110 068**

ASSIGNMENT

Course Code	:	MS-08
Course Title	:	Quantitative Analysis for Managerial Applications
Assignment Code	:	MS-08//TMA/JAN/2024
Coverage	:	All Blocks

Note: Attempt all the questions and submit this assignment to the coordinator of your study centre. Last date of submission for January 2024 session is 30th April, 2024 and for July 2024 session is 31st October, 2024.

1. Take a business problem of your organization or any organization of your choice and analyze it by applying a quantitative technique.
2. Discuss the relevance of probability theory in decision making with the help of a suitable example.
3. The means of two large samples of sizes 1000 and 2000 are 67.5 and 68.0 respectively. Test the equality of the means of the two populations each with standard deviation of 2.5.
4. Find the coefficient of correlation from the following data

Fertilizer used (in metric tons)	15	18	20	24	30	35	40	50
Productivity (in metric tons)	85	93	95	105	120	130	150	160

5. Write short notes on:
 - a) Decision tree approach
 - b) Probability vs non probability sampling
 - c) Box Jenkins model of time series