Master of Business Administration (Banking & Finance) (MPB)

ASSIGNMENT For January 2025 and July 2025 Sessions

MS - 08: Quantitative Analysis for Managerial Applications

(Last date of submission for January 2025 session is 30th April, 2025 and for July 2025 session is 31st October, 2025)



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/2025
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 2025 session is 30th April, 2025 and for July 2025 session is 31st October, 2025.

- 1. "Statistics is the science and art of handling aggregate of facts- observing, enumerating, recording, classifying and otherwise systematically treating them". Comment!
- 2. The customer accounts of a certain departmental store have an average balance of Rs 120 and a standard deviation of Rs 40. Assuming that the account balances are normally distributed
 - a. What proportion of the accounts is over Rs 150?
 - b. What proportion of accounts is between Rs 100 and Rs 150?

(Refer tables for finding the required tabulated value)

 Two different types of drugs A and B were tried on certain patients for increasing weight. Five persons were given drug A and seven persons were given drug B. The increase in weight in kilos is given below-

Drug A	8	12	13	9	3		
Drug B	10	8	12	15	6	8	11

Do the two drugs differ significantly with regard to their effect in increasing weight? (The table value of t for d.f. 10 at 5% level=2.23).

- 4. What is time series analysis? Decompose a time series into its various components and describe them.
- 5. What is a random variable? How is it used to define a probability distribution? Make the probability distribution of "*scores facing up*" in a throw of two dice.