

MBA and MBA (Banking & Finance)

ASSIGNMENT
for
July 2022 and January 2023 sessions

MMPC-005: Quantitative Analysis for Managerial Applications

((Last date of submission for July 2022 session is 31st October, 2022 and for January 2023 session is 30th April, 2023))



School of Management Studies
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
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ASSIGNMENT

Course Code	:	MMPC-005
Course Title	:	Quantitative Analysis for Managerial Applications
Assignment Code	:	MMPC-005/TMA/JULY/2022
Coverage	:	All Blocks

Note: Attempt all the questions and submit this assignment to the coordinator of your study centre. (Last date of submission for July 2022 session is 31st October, 2022 and for January 2023 session is 30th April, 2023).

1. The income of a group of 10,000 persons was found to be normally distributed with mean Rs.750 per month and a standard deviation of Rs. 50, show that of this group about 95% has income exceeding Rs. 668 and only 5% had income exceeding Rs. 832. (area between 750 and 668 = 0.4495, area between 750 and 832 = 0.4495).
2. Why is forecasting so important in business? Explain the application of forecasting for long term decisions.
3. What do you understand by Primary Data? What are the various methods of collecting primary data? Also, mention what points to be kept in mind while designing the questionnaire?
4. The means of two large samples of sizes 1000 and 2000 are 67.5 and 68.0 respectively. Test the quality of the means of the two populations each with standard deviation of 2.5. (z table value at $\alpha_{0.05} = -1.96$).
5. Write short notes on any two of the following:-
 - (a) Mathematical Properties of Arithmetic Mean
 - (b) Stratified Sampling
 - (c) Exponential Distribution
 - (d) Time Series Analysis