

**Master of Commerce (Online)  
(MCOMOL)**

**Second Semester  
Assignments**

**MCO-022**



**School of Management Studies  
Indira Gandhi National Open University  
Maidan Garhi, New Delhi -110 068**



**School of Management Studies  
Indira Gandhi National Open University**

**Master of Commerce (MCOMOL)  
Second Semester**

Dear Students,

As explained in the Programme Guide, you have to do one Tutor Marked Assignment for each course. We are sending the assignments of all the six courses together in this booklet.

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 assignments as per the schedule. Before attempting the assignments, you should carefully read the instructions given in the Programme Guide.

These assignments are valid for two admission cycles (**January 2025 and July 2025**). The validity is given below:

- 1 Those who are enrolled in **January 2025**, it is valid upto **June 2025**.
- 2 Those who are enrolled in **July 2025**, it is valid upto **December 2025**.

In case you are planning to appear in June Term-End Examination, you must submit the assignments to the Coordinator of your Study Centre latest by **15th March**, and if you are planning to appear in December Term-End Examination, you must submit them latest by **15th October**.

In case, you are not able to submit the assignment during above mentioned period, you are required to submit the new assignment.

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**TUTOR MARKED ASSIGNMENT**

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<b>COURSE CODE</b>	<b>:</b>	<b>MCO-022</b>
<b>COURSE TITLE</b>	<b>:</b>	<b>QUANTITATIVE ANALYSIS &amp; MANAGERIAL APPLICATION</b>
<b>ASSIGNMENT CODE</b>	<b>:</b>	<b>MCO-022/TMA/2025</b>
<b>COVERAGE</b>	<b>:</b>	<b>ALL BLOCKS</b>

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**Maximum Marks: 100**

**Attempt all the questions:**

1.    a) What do you understand by forecast control? What could be the various methods to ensure that the forecasting system is appropriate? **(10+10)**  
      b) What do you understand by the term correlation? Explain how the study of correlation helps in forecasting demand of a product.
2.    a) Explain the terms 'Population' and 'sample'. Explain why it is sometimes necessary and often desirable to collect information about the population by conducting a sample survey instead of complete enumeration. **(10+10)**  
      b) How would you conduct an opinion poll to determine student reading habits and preferences towards daily newspapers and weekly magazines?
3.    **Briefly comment on the following:** **(4×5)**
  - a) "Different issues arise while analysing decision problems under uncertain conditions of outcomes".
  - b) "Sampling is so attractive in drawing conclusions about the population".
  - c) "Measuring variability is of great importance to advanced statistical analysis".
  - d) "Test the significance of the correlation coefficient using a t-test at a significance level of 5%".
4.    **Write short notes on the following:** **(4×5)**
  - a) Mathematical Properties of Arithmetic Mean and Median
  - b) Standard Error of the Mean
  - c) Linear Regression
  - d) Time Series Analysis
5.    **Distinguish between the following:** **(4×5)**
  - a) Discrete and Continuous Frequency Distributions
  - b) Karl Pearson's and Bowley's Coefficient of Skewness
  - c) Probability and Non-Probability sampling
  - d) Class Limits and Class Intervals