

MCH-024

ASSIGNMENT BOOKLET

**M.Sc. in Chemistry and Analytical Chemistry Programme
(MSCCHEM/MSCANCHEM)**

INTRODUCTION TO RESEARCH

(Valid from July, 2025 to June, 2026)

**It is compulsory to submit the assignment before filling in
the examination form.**



**School of Sciences
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068
(2026)**

Dear Learner,

Please read the Section on assignments in the Programme Guide for M.Sc. in Chemistry Programme that we sent you after your enrolment. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation, which would consist of one tutor-marked assignment for this course. The assignment is in this booklet, and covers all the four blocks of the course. The total marks of all the parts are 100, of which 40% are needed to pass it.

Instructions for Formatting Your Assignments

Before attempting the assignment please read the following instructions carefully:

1) On top of the first page of your answer sheet, please write the details exactly in the following format:

ENROLMENT NO. :

NAME :

ADDRESS :

.....

.....

COURSE CODE :

COURSE TITLE :

ASSIGNMENT NO. :

STUDY CENTRE :
(NAME AND CODE)

DATE :

PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 2) Use only foolscap size paper (but not of very thin variety) for writing your answers.
- 3) Leave about 4 cm margin on the left, top and bottom of your assignment response sheet.
- 4) Your answers should be precise.
- 5) Submit the complete assignment answer sheets within the due date.
- 6) The assignment answer sheets are to be submitted to your Study centre within the due date. Answer sheets received after the due date shall not be accepted.
We strongly suggest that you retain a copy of your answer sheets.
- 7) This assignment is valid from July, 2025 to June 2026. If you have failed in this assignment or fail to submit it by June 2026, then you need to get the assignment for the year 2026 and submit it as per the instructions given in the Programme Guide.
- 8) You cannot fill the examination form for this course until you have submitted the assignment.

Wishing you good luck

Tutor Marked Assignment

INTRODUCTION TO RESEARCH

Course Code: MCH-024
Assignment Code: MCH-024/TMA/2025-26
Maximum Marks: 100

Note: Attempt all the questions. The marks for each question are indicated against it.

1. List the various types of knowledge sources as applied to the development of research questions. (10)
2. Name the types of research and explain any one in brief. (10)
3. List the steps involved in research and explain the purpose of each of these. (10)
4. Define a research problem. List the criteria in general for a good research problem. (10)
5. What are the different aspects of a research design? Explain the need of a research design. (10)
6. What is meant by sampling in research in any area of study? Name the terms used in the context of sampling. (10)
7. Define hypothesis and list the characteristics of a good hypothesis. (10)
8. Give a layout of a research paper and describe the contents of each section. (10)
9. What is ethics and what is its importance in the research area of chemistry? Explain. (10)
10. Choose a title of your choice in chemistry research and prepare a power point presentation of the same. (10)