

MEV-004

**POST GRADUATE DIPLOMA IN
ENVIRONMENTAL AND OCCUPATIONAL
HEALTH(PGDENOH)/MASTER OF ARTS IN ENVIRONMENTAL
AND OCCUPATIONAL HEALTH(MAENOH)**

2026-2027

MEV-004: Environmental Toxicology



**School of Inter-disciplinary
and Trans-disciplinary Studies
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110068**

ASSIGNMENT

For

<p>POST GRADUATE DIPLOMA IN ENVIRONMENTAL AND OCCUPATIONAL HEALTH(PGDENOH)/MASTER OF ARTS IN ENVIRONMENTAL AND OCCUPATIONAL HEALTH(MAENOH)</p>

MEV-002: ENVIRONMENTAL TOXICOLOGY

Programme: PGDENOH/MAENOH

Course Code: MEV-004/2026-2027

Dear Learners,

You are required to do one assignment for each course for PG Diploma in Environmental and Occupational Health program and Master of Arts in Environmental and Occupational Health program. Each assignment is a Tutor Marked Assignment (TMA) and carries 100 marks. Each assignment covers the entire course.

Aims:This TMA is concerned mainly with assessing your application and understanding of the course material. You are not required to reproduce chunks of information from the course material but to apply the information you have acquired during the course of study. This assignment aims to teach as well as to assess your performance. Please ensure that you read all the units of the course. Do make points as you go along. If there is anything you do not understand, please ask the Counsellors at your Study Centre for clarification. Once you are able to do the assignment satisfactorily, you will be ready to take the Term-end exam with confidence.

Instructions: Before attempting the assignment, please read the following instructions carefully.

1. Read the detailed instructions about the assignment given in the Programme Guide.
2. Write your Enrolment Number, Name, Full Address and Date on the top right corner of the first page of your response sheet(s).
3. Write the Course Title, Assignment Number and the Name of the Study Centre you are attached to, in the centre of the first page of your response sheet(s).

The top of the first page of your response sheet should look like this:

ENROLMENT NO......
NAME.....
ADDRESS.....

COURSE TITLE:.....
ASSIGNMENT NO:.....
STUDY CENTRE:.....**DATE:**

1. Use only A4 paper size for your assignment and tag all the pages carefully.
2. Write the relevant question number with each answer.
3. You should write the answer in your own handwriting.
4. **Submission:** The completed assignment should be sent to the Coordinator of the Study Centre allotted to you. Please read the instructions given in your Programme Guide.
5. These assignment questions are valid for the January 2021 session and July 2021 session.

Now read the following guidelines carefully before answering the questions.

GUIDELINES FOR TMAs

You will find it useful to keep the following points in mind:

1. **Planning:** Read the questions carefully. Go through the points on which they are based. Make some points regarding each question and then rearrange these in a logical order. And please write the answers in your own words. Do not reproduce passages from the units.
2. **Oganisation:** Be a little more selective and analytic before drawing up a rough outline of your answer. In an essay-type question, give adequate attention to your introduction and conclusion. The introduction must offer your brief interpretation of the question and how you propose to develop it. The conclusion must summarize your response to the question. In the course of your answer, you may like to make references to other texts or books as this will add some depth to your analysis.

Make sure that your answer:

- (a) is logical and coherent;
 - (b) has clear connections between sentences and paragraphs;
 - (c) is written correctly giving adequate consideration to your expression, style and presentation;
 - (d) Does not exceed the number of words indicated in the question.
1. **Presentation:** Once you are satisfied with your answers, you can write down the final version for submission, writing each answer neatly and underlining the points you wish to emphasize.

Remember that you must submit your assignments before you can appear for the Term End Exams. Please remember to keep a copy of your completed assignment, just in case the one you submitted is lost in transit.

Good luck with your work!

MEV-004: ENVIRONMENTAL TOXICOLOGY

TUTOR MARKED ASSIGNMENT

Course Code	: MEV-004
Course Title	: Environmental Toxicology
Assignment Code	: MEV-004/TMA-01/2026-2027
Coverage	: All Blocks

Maximum Marks 100

Attempt any five questions. All questions carry equal marks.

5x20=100

1. Explain the terms Ecotoxicology and Environmental toxicology. Describe some important sources of toxicants that are detrimental to human health.
2. Describe the various exposure routes of toxicants in the human body. Explain the distribution and storage of toxins in the human body.
3. What are chemical toxicants? Describe in detail the exposure classes with reference to air, water and soil pollutants.
4. Describe the various types of mutagens and their effects on the human body.
5. Write short notes on:
 - a) Detoxification
 - b) Toxicity Remediation.
6. Explain the various sources of teratogens and their effects. Describe the process of teratogenesis and the mechanism of action.
7. Explain the use of biomarkers and biosensors in cytotoxicity and genotoxicity prevention.