

**POST GRADUATE DIPLOMA IN
ENVIRONMENTAL AND OCCUPATIONAL
HEALTH (PGDEOH)**

Term-End Examination

June, 2022

MEV-004 : ENVIRONMENTAL TOXICOLOGY

Time : 3 hours

Maximum Marks : 100

Note : Attempt any **six** questions from Section A. Each question carries 5 marks. Attempt any **seven** questions from Section B. Each question carries 10 marks.

SECTION A

6×5=30

1. Define Environmental Toxicology. Describe various sources of toxicants.
2. What is Bioaccumulation ? Explain with suitable examples.

3. Match the following :

- | | |
|-------------------------------------|------------------|
| (a) Naturally occurring carcinogens | (i) Rats |
| (b) Parabens | (ii) Oncogene |
| (c) Cancer causing gene | (iii) Aflatoxin |
| (d) Hantavirus | (iv) UV filters |
| (e) Benzophenone | (v) Preservative |

4. Write a short note on autoimmune diseases.

5. Describe various routes of exposure to the toxicants in the human body.

6. Differentiate between Endotoxins and Enterotoxins. Explain with suitable examples.

7. Describe the effects of mutagens.

8. Explain the goals of toxic remediation.

- 9.** Explain the mechanism of detoxification in the human body.
- 10.** Describe the mode of action of toxic substances.
- 11.** What is Bioassay ? Describe various types of bioassays.
- 12.** Explain the following with suitable examples.

LD_{50} and LC_{50}

- 13.** Describe the physicochemical methods for soil remediation.
- 14.** Describe various microbial agents which can act as biological toxicants.
- 15.** Explain the distribution and storage of toxins in the human body.
- 16.** Explain the following :
 - (a) Demyelination
 - (b) Food Intoxication
- 17.** Describe the following with suitable examples :
 - (a) Bioventilation
 - (b) Neurotoxicants