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**MEV-004**

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

**Term-End Examination**

**June, 2021**

**MEV-004 : ENVIRONMENTAL TOXICOLOGY**

*Time : 3 Hours*

*Maximum Marks : 100*

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*Note : (i) Section A : Attempt any **six** out of eight questions. All questions carry 5 marks each.*

*(ii) Section B : Attempt any **seven** out of nine questions. All questions carry 10 marks each.*

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**Section—A**

1. Describe the process of teratogenesis.
2. Explain the distribution of toxins in the human body.

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3. Describe various routes of toxicants in the human body.
4. Write short note on any **one** of the following :
  - (a) Therapeutic drugs
  - (b) Drugs of abuse as toxicants
5. Explain various types of biological toxicants.
6. Describe various types of food additives.
7. Differentiate between bio-accumulation and bio-concentration.
8. Explain about bio-magnification with suitable examples.

**Section—B**

9. Describe the following :
  - (a) Liver detoxification
  - (b) Skin detoxification
10. What is health risk assessment ? Describe risk benefit analysis.

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11. Describe in brief the following :
  - (a) Bio-transformation
  - (b) Bio-remediation
  - (c) Bio-stimulation
  - (d) Bio-augmentation
  - (e) Natural attenuation
12. What is bioassay ? Describe any *two* of the bioassays in toxicological testing.
13. Describe the process of teratogenesis and the mechanism of action.
14. Describe carcinogenesis and the mechanism of action.
15. Define environmental toxicology. Describe the mode of action of toxic substances.
16. Describe the effects of pollutants on the nervous system.
17. Explain the mechanism of detoxification in the body.

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