

Roll No. ....

Total Pages : 2

**CMDQ/M-24**

**5608**

## **ENVIRONMENTAL TOXICOLOGY**

Paper–M-Z-403

Time Allowed : 3 Hours]

[Maximum Marks : 80

**Note** : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

### **Compulsory Question**

1. Explain the following in brief : 8×2=16

- |                           |                        |
|---------------------------|------------------------|
| (a) Acute Toxicity.       | (b) Poison.            |
| (c) Classical Toxicology. | (d) Mercury poisoning. |
| (e) Thermoplastics.       | (f) Food additives.    |
| (g) Asphyxiants.          | (h) Teratogen.         |

### **UNIT-I**

2. (a) Explain the emergence of toxicity in to the environment. 8

(b) Classification of toxicants. 8

3. Write short notes on following toxic agent. 4×4=16

- |                 |                     |
|-----------------|---------------------|
| (a) Pesticides. | (b) Solvents.       |
| (c) Carcinogen. | (d) Petrochemicals. |

### **UNIT-II**

4. (a) Explain the absorption mechanism of toxicants at cellular and tissue level. 8

(b) Write note on chemical induced to Hematotoxicity. 8

5. Explain the following Hepatotoxicity : 4×4=16

- |                  |                  |
|------------------|------------------|
| (a) Fatty Liver. | (b) Cholestasis. |
| (c) Cirrhosis.   | (d) Tumors.      |

### **UNIT-III**

6. (a) Write note on the toxicity of various types of Food additives. 8

(b) Explain the Toxicological effect of Organophosphorus pollutants on Ecosystem. 8

7. Define Water Pollution. Enlist major water pollutants with an account of their effects on Humans. Describe various methods to control Water pollution. 16

### **UNIT-IV**

8. Write short notes on the following : 2×8=16

- |                            |
|----------------------------|
| (a) Bioremediation.        |
| (b) Systematic toxicology. |

9. Define the Genotoxicology. Write note on its effect, molecular mechanism and its prevention. 16