

## M.Sc. Sem.-3 Examination

503

## Env Science (Env Toxicology &amp; Health)

Time : 2-30 Hours]

March-2025

[Max. Marks : 70

|       |   |    |
|-------|---|----|
| Q I   | Describe environmental toxicity of the chemicals responsible for mutagen and cancer.                      | 14 |
| OR    |   |    |
| Q I   | A. Write down a note on common environmental toxicants.   | 7  |
|       | B. Explain toxicity of any two pesticides.  | 7  |
| Q II  | Describe in-vivo and in-vitro toxicity assessment tests in detail.  | 14 |
| OR    |   |    |
| Q II  | A. Describe phytotoxins.  | 7  |
|       | B. Explain animal toxins.   | 7  |
| Q III | Explain cardio-vascular and immune toxicity in detail with examples.                                      | 14 |
| OR    |   |    |
| Q III | A. Describe Neurotoxicity and hepatotoxicity.   | 7  |
|       | B. Describe absorption and translocation of xenobiotics.  | 7  |
| Q IV  | Explain dust diseases and plumbism among workers.   | 14 |
| Q IV  | A. Explain occupational cancer in detail.   | 7  |
|       | B. Explain concept of occupational health and safety.   | 7  |
| Q V   | Attempt any 7 out of 12 Short question (Two- or Three-line answer)/ Fill in the blanks/True or False etc. | 14 |
| 1     | What is the concept of toxicokinetics?  |    |
| 2     | What is the basic principle of environmental toxicology?  |    |
| 3     | What is the meaning of biomethylation?  |    |
| 4     | What are the classification of microbial toxins? Define.  |    |
| 5     | What is the difference between acute and chronic toxicity tests?  |    |
| 6     | What is the LC <sub>50</sub> test for toxicity?   |    |
| 7     | What are the 5 factors that affect toxicity?  |    |
| 8     | Describe the three primary steps that the kidneys take to eliminate toxins.                               |    |
| 9     | Which organ is primarily responsible for biotransformation?   |    |
| 10    | What are the concepts and determinants of health?   |    |
| 11    | What causes byssinosis?   |    |
| 12    | What is the difference between occupational and environmental exposure?                                   |    |