

M.Sc Sem-3 Examination

503

Env Science (Toxico)

Time : 2-30 Hours]

November-2024

[Max. Marks : 70

Instructions: All Questions carry equal marks
Attempt all Questions

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| Q I | Explain environmental toxicity of Polyaromatic hydrocarbons and carbon tetrachloride. | 14 |
| OR | | |
| Q I | A. Give definition, concept and scope of Environmental Toxicology. | 7 |
| | B. Explain environmental toxicity of any two heavy metal. | 7 |
| Q II | Describe different toxic agents with their impact on environment. | 14 |
| OR | | |
| Q II | A. Describe LD ₅₀ , EC ₅₀ and LC ₅₀ . | 7 |
| | B. Explain skin and eye test for the measurement of toxicity. | 7 |
| QIII | What is systemic toxicity? Explain movement of xenobiotics across cell membranes. | 14 |
| OR | | |
| Q III | A. Describe immune toxicity. | 7 |
| | B. Explain biotransformation mechanism. | 7 |
| Q IV | Explain occupational cancer, occupational dermatitis and pneumoconiosis. | 14 |
| Q IV | A. Explain Occupational radiation hazards | 7 |
| | B. Describe health and safety within high risk industries. | 7 |
| Q V | Attempt any 7 out of 12 MCQs/Short question (Two- or Three-line answer)/ Fill in the blanks/True or False etc. | 14 |
| 1 | What is the concept of environmental toxicology? | |
| 2 | What is the classical model of toxicokinetics? | |
| 3 | What is arsenic methylation? | |
| 4 | Define microbial exotoxins and endotoxins. | |
| 5 | What are the advantages of in vitro testing? | |
| 6 | How pH affects the toxicity? | |
| 7 | What are the 5 factors that affect toxicity? | |
| 8 | _____ is the most efficient organ responsible for elimination of toxicant from the body. | |
| 9 | Give instances of enzymes that help in the metabolism of toxins. | |
| 10 | What are occupational hazards in health and safety? | |
| 11 | What is the difference between anthracosis and silicosis? | |
| 12 | How to calculate occupational exposure limit? | |