

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 1927 L

Unique Paper Code : 2182012402

Name of the Paper : Environmental Toxicology
(DSC-11)

Name of the Course : **B.Sc. Environmental
Sciences**

Semester : IV

Duration : 2 Hours Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Answer any **four** questions. **All** questions carry equal marks.

1. (a) Define and explain the concept of environmental justice, ecotoxicology, and remediation. (10)
(b) Explain why environmental toxicology is important for public health and ecosystem protection. (5)
2. Differentiate between the following : (5×3=15)
(a) Brownfields and Superfund sites
(b) Pesticides and pharmaceuticals as environmental contaminants

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1927

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(c) Risk assessment and risk management

3. Write short notes on the following: (3¾×4=15)
(a) Health effects of air pollution
(b) Sources of water pollution
(c) Emerging issues in air toxicology
(d) Emerging issues in water toxicology
4. (a) Explain the classification, history of use and environmental distribution of pesticides. (8)
(b) Discuss the fate, transport, health effects and ecotoxicology of pesticides in the environment. (7)
5. (a) Explain the properties and environmental behaviour of nanoparticles. (8)
(b) Discuss the fate, transport, health effects and ecotoxicological risks of nanoparticles. (7)
6. Discuss emerging issues in environmental toxicology with reference to endocrine disruption, microplastics, PFAS, climate change, ethics, global perspectives and future research directions. (15)

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