

Paper code-.....Your Roll No.

SCHOOL OF CHEMICAL & LIFE SCIENCES
B.Sc. (Toxicology)
Examination: B.Sc. Toxicology; Semester IV (2021)
Paper: Environmental Toxicology (Code: BTXSEC-02)

Time: 1½ h

Max Marks: 37

This Question Paper contains 3 questions. Question No. 1 is of 07 marks and Question No. 2 and 3 of 15 marks. Attempt all questions.

Q1. Give very brief answers to the following questions. [07]

- a) What are 'chemistry' dimensions of environmental toxicology?
- b) Give two examples of emulsifying chemicals.
- c) Rank these chemicals for their environmental persistence in an increasing order:
Heptachlor, Aldrin, Benzene Hexachloride.
- d) Define biopolymers.
- e) Rank these chemicals in increasing order of their water solubility: Pentane, Decane, Hexane.
- f) Define isotherm.
- g) Which of the rule of India governs 'Pesticides and Agricultural Chemicals'?

Q2. Why some chemicals are categorized as 'Persistent Organic Pollutants (POPs)? [15]
How POPs affect human and environmental health? Elaborate with examples.

OR

Which of the chemical characteristics influence the fate of chemicals in the environment? Elaborate the role of acid-base ionization in the environmental and biological movements of chemicals.

Q3. Describe in detail processes of bioaccumulation and biomagnification. [15]
Give one example of impact of biomagnification.

OR

How important is risk assessment in ensure safety of human health? Elaborate processes of carcinogenic risk assessment of chemicals.

—End of Question paper—