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ESS 454

II Semester M.Sc. Degree Examination, September/October 2022
(CBCS)
ENVIRONMENTAL SCIENCE
Environmental Toxicology

Time : 3 Hours

Max. Marks : 70

I. Write short notes on **any four** of the following (**not** exceeding **2** pages **each**) :
(4×4=16)

- 1) a) Drug toxicity
- b) LD₅₀
- c) Biomagnification
- d) S9 fraction
- e) Particulate matter sources
- f) Toxicity curves.

II. Write explanatory notes on **any five** of the following (**not** exceeding **3** pages **each**) :
(5×6=30)

- 2) Factors influencing toxicity.
- 3) Dose response relationship curve.
- 4) Environmental forensics.
- 5) Biotransformation.
- 6) Field based microbial bioassay for toxicity testing.
- 7) Importance and significance of bioassay.
- 8) Selective toxicity.

III. Answer **any two** of the following (**not** exceeding **8** pages **each**) : **(2×12=24)**

- 9) Describe the mechanism of toxicity and receptor mediated events.
 - 10) Discuss the toxicology of major pesticides and their impacts on environment.
 - 11) Explain the mechanism of impact of particulate matter on cardio-vascular system.
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