

19P318

(Pages: 2)

Name:

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CBCSS-PG)

**CC19P ESW3 C14 - ENVIRONMENTAL TOXICOLOGY AND OCCUPATIONAL
HEALTH AND SAFETY**

(Environmental Science)

(2019 Admission Regular)

Time : Three Hours

Maximum : 30 Weightage

I. Answer any **four** questions. Each question carries 2 weightage.

1. Define ecotoxicology.
2. Explain the toxicity of radioactive isotopes
3. Write a note on environmental carcinogens.
4. Comment on hormone mimics.
5. Briefly explain occupational hygiene.
6. Comment on musculoskeletal disorders and cumulative trauma disorders
7. Differentiate perceived risk and real risk.

(4 x 2 = 8 Weightage)

II. Write a short essay on any **four** of the following. Each question carries 3 weightage.

8. Briefly discuss with examples
 - a) bioaccumulation
 - b) biomagnification
 - c) biotransformation
9. Write down the safety measures for nuclear power plants.
10. Briefly explain different routes of entry of toxicants to ecosystem.
11. Write a short note on different classes of environmental pollutants.
12. Discuss briefly the health issues associated with steel and textile industries.
13. Explain LC50, MATC and NOEC.
14. Comment on the concept of dosimetry.

(4 x 3 = 12 Weightage)

III. Write an essay on any *two* of the following. Each question carries 5 weightage.

15. Discuss in detail the metabolic and biochemical impacts of environmental contaminants on living system.
16. Write an essay on the importance of industrial safety and the role of safety department.
17. Explain in detail the measures involved in environmental risk assessment and management.
18. Discuss the case study of arsenic and mercury toxicity

(2 x 5 = 10 Weightage)
