

20P318

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Name:

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS-PG)

(Regular/Supplementary/Improvement)

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

(Environmental Science)

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

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

1. Differentiate bioaccumulation and biomagnification.
2. Explain dose response curve.
3. Write a short note on biological monitoring.
4. Define the terms LC50 and MATC.
5. What is OHSAS 18000?
6. Define dosimetry.
7. Comment on tissue specificity of toxicants.

(4 × 2 = 8 Weightage)

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

8. Write a note on different classes of environmental pollutants.
9. Distinguish lethal, sub-lethal and chronic tests.
10. Briefly explain occupational health and safety considerations in waste treatment plants.
11. What are biomarkers and bioindicators? Explain with examples.
12. List out the metabolic and biochemical impacts of environmental contaminants.
13. Comment on ergonomics.
14. Discuss environmental risk assessment methods.

(4 × 3 = 12 Weightage)

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

15. Discuss in detail occupational health hazards and safety considerations.
16. Enumerate and discuss the health problems in different types of industries.
17. Explain environmental contamination related diseases and preventive measures.
18. Give an account of the effects of environmental toxicants at cellular, organismic, population and ecosystem levels with examples.

(2 × 5 = 10 Weightage)
