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E – 5109

Second Semester M.Sc. Degree Examination, October 2018
Branch : ENVIRONMENTAL SCIENCES
ES 223 : Environmental Pollution and Toxicology
(2013 Adm. Onwards)

Time : 3 Hours

Max. Marks : 75

I. Answer **any ten** of the following : **(10×2=20 Marks)**

1) Define pollution.
2) Differentiate source and sink. Which one is more dangerous ?
3) What is a bio-indicator ? Example for SO_2 pollution bio indicator in air.
4) Sources of water pollution.
5) Radioactive decay.
6) What do you mean by light clutter with respect to light pollution ?
7) PM 2.5 and PM 10.
8) Major impacts of hydrocarbon pollution to marine organisms.
9) Differentiate LC 50 and LD 50.
10) Fluorosis and asbestosis.
11) Emerging pollutants.
12) NOAEL in toxicology.

II. Answer **any five** of the following : **(5×5=25 Marks)**

13) Wastewater generation from domestic sector and potential impacts on environment.
14) Soil pesticides and their ill effects on soil life.

P.T.O.

15) Elaborate on National air quality indices.

16) Bio-magnification of toxicants through food chain.

17) Glass vial residue test.

18) Noise pollution and its impact on human health.

19) Bhopal gas tragedy.

III. Answer **any two** of the following : **(2×15=30 Marks)**

20) Discuss the environmental pollution caused by paper and pulp industrial effluents.

21) Elucidate the detoxification mechanism in human tissues.

22) Write an essay on oil spills, effects and cleanup operations.