

B.Sc.(Part-II) (With Credits)-Regular-Semester 2012 Sem III
B.Sc.2391: Environmental Science Paper-I (Pollution Science)

P. Pages : 2

Time : Three Hours



GUG/W/16/3338

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Illustrate the answers with suitable diagrams and examples.

1. What are factors influencing air pollution ? How pressure, winds and moisture affects air pollution? **10**

OR

Define water pollution. State types of water pollutants. Discuss sources of water pollution.

2. Elaborate the term occupational health. Describe different types of hazards in mining and cement industry. **10**

OR

State sources of pesticide pollution. Discuss effects of pesticides on man and aquatic biota.

3. a) What are primary and secondary air pollutants? **10**
b) Discuss environmental issues associated with coal ash.
c) What are causes of traffic noise?
d) How agricultural practices are contributing to soil pollution?

OR

- e) Describe in brief methods for control of vehicular pollution.
f) What are sources and effects of nitrate in groundwater?
g) Discuss hazards associated with working at elevated places.
h) Describe detrimental effects of soil pollutants.

4. a) With chemical reactions explain formation of acid rain. **10**
b) Give an account on chemical speciation of mercury.
c) What is radioactive fall out? State its types and mechanism involved in it.
d) What is solination? Describe process of soil solination.

OR

- e) What are particulate matter? Briefly discuss its classification.
- f) State effects of oil pollution on marine life and man.
- g) Write on account on nuclear winter.
- h) Describe mode of poisoning of pesticide.

5. Answer in 2-3 lines **any ten**.

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- a) State sources of oxides of Sulphur.
- b) What is the pH of acid rain?
- c) Give examples of criteria pollutants.
- d) What is ballast water?
- e) In which part of India groundwater arsenic is a problem.
- f) Name the disease caused due to excess cadmium.
- g) State basic types of radiation.
- h) Name equipment's used for noisemeasurement.
- i) In which units radiation is reported.
- j) What is soil acidification?
- k) Define bioaccumulation.
- l) Give full form of POPs.
