

[This question paper contains 4 printed pages.]

3863

Your Roll No.

B.Sc./III

IS

ES-301 – Environmental Concerns and Health

Time : 2 Hours

Maximum Marks : 75

*(Write your Roll No. on the top immediately
on receipt of this question paper.)*

Answer Sections A and B on separate answer-books.

SECTION A

*Attempt three questions in all,
including Q. No. 1 which is compulsory.*

1. (a) Define any Five of the following :

(i) Species Introduction

(ii) Aerosol

(iii) Photochemical oxidant

(iv) Agrochemicals

(v) Pollutant

(vi) Genetically modified organisms (5)

P.T.O.

(b) Comment on the following statement :

Depletion of O₃ layer by human activities may have serious implications. (3)

2. Briefly answer any **three** of the following :

(a) Unleaded Petrol

(b) Cartagena protocol

(c) Chernobyl Nuclear Disaster

(d) Biomonitoring

(e) Species Introduction (15)

3. (a) Discuss the impact of oxides of Nitrogen and Sulphur in the environment. (10)

(b) Briefly comment on Intellectual Property Rights. (5)

4. Write short notes on :

(a) Species Invasion

(b) El Nino

(c) Biosafety (15)

5. Comment on the harmful effects of the following :

(a) SPM

(b) radioactive waste

(c) global warming

(15)

SECTION B

*Attempt three questions in all,
including Question No. 1, which is compulsory.*

1. (a) Differentiate between solid waste and municipal waste. (2)
- (b) List two chemical Hazards. (1)
- (c) What do you understand by the following :
 - (i) Chronic Toxicity
 - (ii) Cytochrome P-450
 - (iii) Incineration
 - (iv) MSW (4)
2. (a) What are the cumulative effects of heavy metals ?
Write a note on Mercury toxicity. (7½)
- (b) What do you understand by Bioaccumulation ?
What is the consequence of bioaccumulation in the environment ? (7½)

P.T.O.

3. (a) What are Mutagenic Agents? Explain the health risks on exposure to mutagenic agents. (7½)
- (b) Explain LD₅₀ and r dose-response relationship of toxic compounds. (7½)
4. Enumerate various Waste management strategies and role of microbes with an example of such a successful project India. (15)