

Total Pages : 2

CMDQ/D-23

5096

ECOTOXICOLOGY AND ENVIRONMENTAL HEALTH

Paper–MES-303

Time Allowed : 3 Hours]

[Maximum Marks : 80

Note : Attempt **five** questions in all, selecting **one** question from each Unit. Question No. **1** is compulsory. All questions carry equal marks.

Compulsory Question

1. Write short notes on the following : 8×2=16
- (a) Distribution of absorbed toxic substances in an organism.
 - (b) Difference between ED50 and LD50.
 - (c) Name vectors of Leishmaniasis and Schistosomiasis.
 - (d) Reasons to carry out ecological monitoring.
 - (e) Nitrate in water.
 - (f) Coliforms in water.
 - (g) Five “R’s” in waste management.
 - (h) Difference between sanitary and secure landfilling.

UNIT-I

2. What are carcinogens? Discuss the carcinogenicity of carcinogens and remedial measures for controlling the effects of cancers. 2,8,6
3. Describe the biochemical aspects of Lead, Arsenic and Ozone. 6,5,5

UNIT-II

4. Describe the following : 8×2=16
 - (a) Control of water borne diseases
 - (b) Control of AIDS.
5. Explain the symptoms, epidemiology and control of amoebiasis. 16

UNIT-III

6. Describe different methods and technologies to control particulate matter and gaseous emissions from a point source
8,8
7. Describe the secondary and tertiary methods of wastewater treatment.
8,8

UNIT-IV

8. Describe composting and vermicomposting methods of solid waste management. 8,8
9. Write descriptive notes on the following : 8×2=16
 - (a) Types of biomedical wastes
 - (b) Mass burn incinerator.