

ENVIRONMENTAL TOXICITY AND HUMAN HEALTH

Unit- 1

Occupational Health Hazards

Occupational health hazards, biogeochemical factors in environmental health, epidemiological issues-goiter, fluorosis, arsenic poisoning.

Unit-2

Toxic chemicals

Toxic chemicals in the environment, pesticides in water, bio-chemicals aspects of arsenic, cadmium, lead mercury, carbon monoxide, ozone and PAN pesticide.

Unit-3

Biotransformation

Mode of entry of toxic substance, biotransformation of xenobiotics detoxification, carcinogens in air, chemical carcinogenicity, mechanism of carcinogenicity, environmental carcinogenicity testing.

Unit-4

Insecticides & Dose

Insecticides, MIC effects, pesticide dose, effect and toxicity relationship, environmental radioactivity, radiation dosimetry.

Books Recommended:

1. Fundamental concepts of Environmental chemistry – G.S Sodhi
2. Principals of Environmental Chemistry – Manahan
3. Environmental hazards & human health R.B. Philip
4. Toxicology - principles & applications - Niesink& Jon devries
5. Parasitology - Chatterjee Preventive & Social medicines – Perk