

Examrace

Toxic Chemicals: Pesticide, Types of Pesticides and Their Constituent, Effect and Uses

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Pesticide = Pest + Cide (To Kill Pests)

Division based on chemical Nature		
Insecticide kill insects	Fungicide kill weeds or undesirable vegetation	Herbicide Toxic to moulds and check plant disease

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Types of Pesticides and Their Constituent, Effect and Uses

Pesticide	Constituent	Effect	Used as
Organochlorines	Chlorinated hydrocarbons	Liver cancer, neurological damage	Insecticides
Organophosphate	Phosphoric acid	Tremor, confusion, slurred speech, muscle twitching, convulsions	Insecticides
Carbamates	Carbamic acid	Nausea, vomiting, blurred vision, convulsions and sometimes death	Fungicides, Insecticides
Chlorophenoxyacids	Chlorophenoxy compounds	Kills broad-leafed plants	Herbicides

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Heavy Metals

Elements	Highly toxic state	Disease
Lead (Pb)	Organic form	kidney and brain damage
Mercury (Hg)	Methyl mercury	Minamata disease
Chromium (Cr)	Cr(VI)	dermatitis and painless skin ulcers
Cadmium (Cd)		Itai-itai disease

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Metalloids

Element	Toxic Form	Disease
Arsenic (As)	As ⁺³ or arsenite	Arsenicosis or Black-foo disease
Selenium (Se)	H ₂ Se	Kashin-beck disease

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Multiple Choice Questions

1. Fungicides are used to kill

1. Weeds
2. Insects
3. Moulds
4. All of the above

Answer: a

2. Itai-itai disease is caused by

1. Chromium
2. Cadmium

3. Zinc

4. Mercury

Answer: b

3. Which form of Arsenic is very toxic?

1. As (III)

2. As (V)

3. As (VI)

4. As (IV)

Answer: a

4. Carbaryl is a

1. Carbamate

2. Organochlorine

3. Phenoxyacid

4. Organophosphate

Answer: a

#Toxic Chemicals

#UGC NTA NET

#Pesticides

#Their classification and effects

#Biochemical aspects of heavy metals

#Hg,

#Cd,

#Pb,

#Cr

#metalloids

#As, #Se

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