

**GIET UNIVERSITY, GUNUPUR – 765022**

B. Sc (AG) (Fourth Semester) Examinations, June – 2021

AC(E) – 221: AGROCHEMICALS, 3(2+1)

Time: 2 hrs

Maximum : 50 Marks

The figures in the right hand margin indicate marks.**PART – A****Q.1. Fill in the blanks with suitable word / figure.****(0.5 x 10 = 5 Marks)**

- Dealing with the LD50 rating, a herbicide with a label warning of "danger-poison" would have ----- of toxicity rating.
- Perennial weeds live more than-----years.
- pairs of legs do insects have.
- Nitration of Benzene is example of -----.
- Toxicity of pesticide can be graded by -----
- Trade name of monocrotophos is -----
- Human and animal health is affected by -----.
- class of plant grows back each year without being reseeded
- Plant bio-pesticides are used for ----- agriculture.
- There are-----stages in Complete metamorphosis.

Q. 2. Define (or) Explain the following in one or two sentences.**(0.5 x 10 = 5 Marks)**

- Fertilizers and their importance
- IPM
- Lethal dose
- Narrow spectrum pesticide
- Complex fertilizers
- Weed

Q3. Match the following**(0.5 x 10 = 5 Marks)**

Column – A			Column – B	
(a)	term -cide		(i)	Bordeaux mixture
(b)	systemic pesticide		(ii)	Solid- Liquid
(c)	herbicide		(iii)	4
(d)	body sections of an insect		(iv)	insects
(e)	fungicide		(v)	Weeds
(f)	theory of acid- base indicators		(vi)	To kill
(g)	Cut worm		(vii)	Ostwald
(h)	paper chromatography		(viii)	Ustilago
(i)	Insecticides kill		(ix)	<i>Agrotis ipsilon</i>
(j)	smut diseases		(x)	absorbed by the roots of the plant

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. First commercial pesticide was DDT
- b. Methyl isocyanate gas is used for synthesizing Flit
- c. *Bacillus thuringiensis* is a microbial insecticide
- d. Biological control of pests is self perpetuating
- e. Pesticide used in foundations of buildings for preventing termite attack is Aldrin
- f. One of earliest pesticides employed by humans was Margosa (Neem) leaves.
- g. DDT was first synthesized by Paul Muller
- h. Biopesticides include Bioherbicides, bioinsecticides and biofertilizers
- i. Weed is a plant that is growing out of place.
- j. Around about 50,000 destructive plant diseases are there

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

5. Describe major classes, properties of important herbicides and their fate.
6. How should pesticides be stored?
7. Enumerate process of manufacturing of ammonium sulphate or ammonium nitrate.
8. Explain any two diseases in *Citrus* studied by you; with respect to causal organism, symptoms & control measures.
9. Define the microbial control. Explain the different techniques used in microbial control with suitable example.
10. Write synthesis and unit process of captan.

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