

2020

Time : 3 hours

Full Marks : 60

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks

Answer all questions.

1. Choose the correct answer of the following :
2×10 = 20
- (a) DDT is an .
- (i) Insecticide (ii) Explosives
(iii) Antibiotic (iv) Enzyme
- (b) Which one is most common ways to express acute toxicity:
- (i) LD₅₀ (ii) LC₅₀
(iii) EC₅₀ (iv) All of these

- (c) Malathion is
- (i) Wide spectrum organophosphate insecticide
(ii) Very safe insecticide
(iii) Both correct
(iv) Both incorrect
- (d) A lower LD₅₀ is indicative of
- (i) Increased Toxicity
(ii) Decreased Toxicity
(iii) Safe zone
(iv) None of the above
- (e) Which one of the following is a natural organic pesticide :
- (i) Fluorine compound
(ii) Gammexane
(iii) Nicotine
(iv) Diazinen
- (f) Gammexane is the trade name of
- (i) BHC (ii) DDT
(iii) Urea (iv) Detergent
- (g) The main Host plant of Tryporyza nivella is
- (i) Wheat (ii) Paddy
(iii) Sugar cane (iii) Patato

(h) **Piercing and sucking mouth part** are found in :

- (i) Cotton Leaf Roller
- (ii) Cotton Jassid
- (iii) Mustard Aphid
- (iv) Pink Bollworm

(i) **Bacillus thuringiensis (Bt)** is more effective at pH :

- (i) 3 to 6
- (ii) 9 to 10
- (iii) 11 to 14
- (iv) All of the above

(j) The main characteristic feature of insect is:

- (i) Three pair of legs
- (ii) Presence of wings
- (iii) Pair of antenna
- (iv) all of these

2. Write short answer on any four of the following
5×4 = 20

- (a) Classification of Pesticide
- (b) Biting and chewing mouth parts
- (c) Tools and techniques of pesticide application
- (d) Biopesticides

(e) **Harmful effect of pesticide**

(f) **Malathion**

(g) **Herbicides**

(h) **LD₅₀ and LC₅₀**

3. Write any **two** of the following in details

10×2 = 20

(a) **What is Pest ? Describe the integrated Pest Management.**

(b) **What is toxicity test ? Describe the method of measurement of Insecticide Toxicity by LD₅₀.**

(c) **What is stored grain Pest ? Name any three stored grain Pest. Describe the life cycle of any one.**

(d) **Define insecticide. Name some important organochlorine insecticide and give the mechanism of their toxic action.**

(e) **Describe different types of damage caused by pests of agricultural crops and its management.**

