

**2023**

**AGS 5th Semester Examination**

**B.Sc. Hons. in Agriculture**

**Pests of Crops and Stored Grain and their  
Management**

PAPER — 503

Full Marks : 50

Time : 2 hours

*The figures in the right-hand margin indicate marks.*

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

*Illustrate the answers wherever necessary.*

Answer from **all** the Groups as directed.

**GROUP—A**

1. Answer *any five* questions from the following :  
2×5=10

(a) What is vapor heat treatment?

( 2 )

- (b) What is silver shoot or onion shoot symptoms of rice?
- (c) List out the important stored pests for different spice products.
- (d) What is the 'rat tail' symptoms of chilli?
- (e) Write the control measure of rice green leaf hopper.
- (f) Write the name of any five insecticides (both trade name and chemical composition).
- (g) Write in brief the management of early shoot borer of sugarcane.
- (h) Write the damage symptoms of brinjal fruit borer.

### GROUP—B

2. Answer *any four* questions from the following :  
5×4=20

- (a) Write the damage symptoms of rice green leaf hopper (GLH), ETL of GLH (how many insect could be caught per sweep) in seed bed, flowering stage, booting stage and tungro endemic area. 5

( 3 )

(b) Write the damage symptoms and management of red gram sterility mosaic in red gram caused by *Aceria cajani*.  $2\frac{1}{2}+2\frac{1}{2}$

~~(c)~~ Write down the host range and damaging symptoms of Gram Pod Borer. 5

~~(d)~~ Write the common English name and scientific name of *cucurbitaceac* crops. Write the damage symptoms and control of fruit flies *Bactrocera cucurbitae*.  $2\frac{1}{2}+2\frac{1}{2}$

~~(e)~~ Write the major pest of cruciferous vegetables. Briefly discuss the management of Diamondback moth.  $1\frac{1}{2}+3\frac{1}{2}$

~~(f)~~ Write about the store grain pest of pulses. 5

### GROUP—C

3. Answer *any two* questions from the following :  
 $10 \times 2 = 20$

~~(a)~~ Briefly discuss the IPM in pulse crops. 10

(b) What are mites? Mention a few examples of phytophagous mites. Also, describe the damage, life-history and management of any one of them.  $1+4+5$



( 4 )

(c) Describe the damage, life-history and preventive and remedial methods of management of rice weevil. 10

(d) Write down the management of Diamondback moth (DBM) of cabbage and discuss the damage symptoms and management of fruit flies of cucurbits crop. 4+6

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