

2023

AGS 5th Semester Examination

B.Sc. Hons. in Agriculture

**Principles of Integrated Pest and
Disease Management**

PAPER — 501

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) Define Pest.

(2)

- (b) What is economic injury level?
- (c) What is disease diagnosis? Write different steps involved in plant disease diagnosis.
- (d) What do you mean by biological control of pest? Give an example.
- (e) What is trap crop? Give an example that helps in pest management.
- (f) What do you mean by antibiosis?
- (g) Write the difference between survey and surveillance.
- (h) Comment on safety issues or guidelines in pesticide uses.

GROUP—B

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

- (a) Describe the basic principles and advantages of IPM.
- (b) Differentiate between predator and parasite.

(3)

- (c) Write down about the key components of integrated pest and disease management.
- ~~(d)~~ Write the biological control of plant disease management.
- (e) Write down the key aspects of ecological management of crop environment.
- ~~(f)~~ Define the following terms :
- (i) Epidemic pests
 - (ii) Endemic pests
 - (iii) Major pests
 - (iv) Minor pest
 - (v) Potential pests

GROUP—C

3. Answer *any two* questions from the following :
10×2=20

- ~~(a)~~ Describe pest risk analysis and its components. 2+8
- ~~(b)~~ Write about cultural methods of control in IPM. 10

(4)

~~(c)~~ What is diagnosis? Describe different steps involved in plant disease diagnosis.

2+8

(d) Write the principles of plant disease control. Write in brief about the preventive measure and control measure in plant disease management.

3+7

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