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2023

AGS 2nd Semester Examination

B.Sc. Hons. in Agriculture

Fundamentals of Plant Pathology

PAPER — 206

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 pathogenesis

✓(b) Who is considered the 'Father of Phytobacteriology'? Write about his contribution to phytopathology.

(2)

- ✓(e) Name any two diseases caused by bacteria in crop plants.
- ✓(d) What do you mean by localized disease?
- ✓(e) Name any two diseases caused by fungi in crop plants.
- (f) What is meant by "non-parasites or abiotic diseases" ?
- ✓(g) Distinguish between wilt and blight.
- ✓(h) What is disease triangle?

GROUP—B

2. Answer *any four* questions from the following :

5×4=20

✓(a) Define disease. Classify the plant diseases.

2+3=5

(b) What are the different chemical fungicides used to control plant diseases? 5

(c) Write the phenomenon of pre-penetration and post-penetration. 5

(3)

- ✓(d) What is the role of growth regulators and enzymes in plant pathogenesis? 5
- ✓(e) Explain the scope and importance of plant pathology in agriculture. 5
- ✓(f) What are the principles of plant disease management? 5

GROUP—C

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

- ✓(a) What are toxins? Discuss the role of toxins in disease development. 2+8=10
- ✓(b) Write the role of biotechnology and remote sensing in plant disease management. 10
- (c) What is fungi? Write about the classification of fungi. 2+8=10
- (d) Write the defense mechanisms of plants, both structural and biochemical, against pathogens. 10

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