



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

**B.Sc. (Honours) in AGRICULTURE
2nd Semester Examination 2022**

PAPER—AGS-206

FUNDAMENTALS OF PLANT PATHOLOGY

Full Marks : 50

Time : 2 Hours

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

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

Illustrate the answers wherever necessary.

1. Answer any *ten* questions. 10×2
- (a) Define agricultural plant pathology.
- (b) What is phytoplasma ?
- (c) Distinguish between biotrophs and necrotrophs.
- (d) What are Koch's postulates ?
- (e) Define disease triangle.

- (f) What is the main difference between wilt and blight?
- (g) Distinguish between signs and symptoms.
- (h) Write the component and ratio of Bordeaux mixture.
- (i) Define causal complex.
- (j) What do you mean by Pathogenecity?
- (k) What are the conditions for successful infection?
- (l) Define disease cycle.
- (m) Distinguish between phyto anticipins and phytoalexins.
- (n) Write any two objectives of Remote Sensing in plant pathology.
- (o) What do you mean by vertical resistance?

2. Answer any six questions. 6×5

- (a) Write the scope and importance of plant pathology in agriculture. 2+3
- (b) Write down mode of action of fungicides. Give example of fungicide. 4+1
- (c) What are the role of growth regulators in plant pathogenesis?
- (d) Write the role of enzymes in plant pathogenesis.
- (e) Write the defense mechanism of plant against pathogen.

- (f) How does remote sensing help in plant disease management?
- (g) What are toxins? Discuss the role of toxin in disease development.
2+3
- (h) Briefly write the general morphological characters of bacteria.
- (i) What are the principles of plant disease management?
- (j) Write the phenomenon of pre-penetration and post penetration.

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