

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2179

M.Sc. (Final) Examination, 2022

BOTANY

Paper - VII(a)

(Advanced Plant Pathology-I)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) Name any *four* fungicides.
- (ii) What is pre-penetration phase of infection ?
- (iii) Define Phytoalexins.

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- (iv) What is inoculum potential ?
- (v) Name the pathogen of Green ear disease of Bajra.
- (vi) Write any *two* symptoms of flag smut of Wheat.
- (vii) What do you mean by biotrophic parasites ?
- (viii) Define Parasitism.
- (ix) What is disease forecasting ?
- (x) Write the causal organism of late blight of Potato.

Section-B

2. Discuss on post infection development.

Or

Write the role of tissue culture in studies on host parasite relationship.

3. Write a note on epiphytotics.

Or

Why we used meristem culture for virus free plant ? Write any three reasons.

4. Write a short note on use of electron microscope in histopathological investigations.

Or

Describe Plant Quarantine.

5. Write short note on Karnal bunt disease of Wheat.

Or

Describe Green Ear disease of Bajra.

6. Describe Tikka disease of groundnut.

Or

Describe smut of Sugarcane.

Section-C

7. Describe defence mechanism.
8. Describe physical and biological control of plant diseases.
9. Describe the following :
 - (a) Covered Smut of Barley
 - (b) Smut of Bajra
10. Explain the following in detail :
 - (a) Early blight of Potato
 - (b) Powdery mildew of grapes.
11. Write a detailed note on Isolation Purification and Culture of Pathogens.