

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPF-2183

M.Sc. (Final) Examination, 2022

BOTANY

Paper - VIII (a)

(Advanced Plant Pathology-II)

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

2 each

1. Answer in short :

- (i) Differentiate the blight and blast symptoms.
- (ii) Give an example of purple non-sulphur bacteria.

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- (iii) What do you know about fire blight symptom ?
- (iv) Write about the pathogen of brown rot of Potato.
- (v) What do you mean by Synergism ?
- (vi) Write the symptoms of Potato yellow dwarf.
- (vii) Write the important characters of order Tylenchida.
- (viii) What do you know about Phasmid ?
- (ix) How can you control the disease due to oxygen deficiency ?
- (x) Write the symptoms of Cordia leaf gall.

Section-B

5 each

2. Write in detail about classification of pathogenic bacteria.

Or

Discuss the physiological method of identification of bacterial pathogen.

3. Describe ring rot of Potato by explaining symptoms, causal organism, disease cycle and control measure.

Or

Discuss the stalk rot of maize disease.

4. Discuss the Tomato ring mosaic disease.

Or

Write a note on Mycoplasma.

5. Write a note on classification of plant pathogenic nematodes.

Or

Write the symptoms, causal organism, disease cycle and control measure of Molya disease of wheat.

6. Write a note on disease due to deficiency of zinc.

Or

Describe the Zizyphus stem gall.

Section-C

10 each

7. Describe in detail the infection mechanism of bacterial pathogens.
8. Describe symptoms, causal organism, disease cycle and control measure of angular leaf spot of cotton.
9. Give an illustrated account on symptomatology of viruses.
10. Describe in detail the anatomy of plant pathogenic nematodes.
11. Describe the classification and anatomy of galls.

5+5