Roll No. : .....

Total No. of Questions : **11**] [Total No. of Printed Pages : **3**

BFMS–407

M.Sc. (Final) Examination, 2023

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

1. Answer in short :

   (i) How are bacteria named ?

   (ii) Differentiate between the wilt and scab symptoms.

   (iii) Write the symptoms of citrus canker.

(iv) Differentiate Brown rot and Ring rot symptoms.

(v) What do you understand by Interference ?

(vi) Write about the pathogen of Tobacco necrosis.

(vii) Write the classes of nematodes.

(viii) What are the two morphological characters of nematodes ?

(ix) Write the symptoms of cordia leaf gall.

(x) What do you know about PAN ?

Section–B

2. Write a note on infection mechanism of bacterial pathogen.

Or

Discuss the cytological aspect of bacterial infection process.

3. Describe citrus canker by explaining symptoms, causal organism, disease cycle and control measures.

Or

Discuss the Tundu disease of wheat.

4. Write a note on Mycoplasma.

Or

Discuss the Bhindi yellow vein mosaic disease.

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

Or

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

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

Or

Write the mechanism and physiology of insect galls.

Section–C

7. Describe in detail classification and symatology of bacterial pathogen.
8. Describe symptoms causal organism, disease cycle and control measure of Red stripe of sugarcane.
9. Give an illustrated account on isolation, purification and culturing of viruses.
10. Describe in detail classification and identification of plant pathogenic nematodes.
11. Describe in detail some insect induced plant galls of zizyphus stem galls and pongamia leaf galls.