H-4/8(A)/22   Roll No. ....

IV Semester Examination, 2022

M.Sc.

BOTANY

Paper IV

(Molecular Plant Pathology-II)

Time : 3 Hours]   [Max. Marks : 80

Note : *All questions are compulsory. Question Paper comprises of 3 sections. Section **A** is objective type/multiple choice questions with no internal choice. Section **B** is short answer type with internal choice. Section **C** is long answer type with internal choice.*

SECTION A   1×8=8

(Objective Type Questions)

1. Define disease forecasting.

2. What are Fumigants ?

3. Define plant Quarantine.

4. Define Horizontal resistance.

5. Write the name of causal organism of stem gall of coriander.

P.T.O.

6. Write the name of causal organism of bacterial blight of rice.

7. Write the name of causal organism of Angular leaf spots.

8. Write the name of causal organism of sandal spike.

SECTION B   6×4=24

(Short Answer Type Questions)

Note : *Attempt one question from each unit.*

Unit-I

1. Write short note on systematic fungicides.

Or

Write short note on factor responsible for the establishment of an epidemic.

Unit-II

2. Write short note on recurrence of rust disease in India.

Or

Write short note on structural defense mechanism.

H-4/8(A)/22

Unit-III

3. Describe Tikka disease of ground nut.

Or

Write short note on Tundu disease of wheat.

Unit-IV

4. Describe yellow vein mosaic of Bhindi.

Or

Describe root knot disease.

SECTION C   12×4=48

(Long Answer Type Questions)

Note : *Attempt one question from each unit.*

Unit-I

1. Describe biological control of plant diseases.

Or

Describe Epidemiology.

Unit-II

2. Describe the biochemical defense of host plant against pathogens.

Or

Describe the vertical resistance of plant.

Unit-III

3. Describe covered smuts of Barley.

Or

Describe red rot of sugarcane.

Unit-IV

4. Describe any two mycoplasma diseases of plants.

Or

Write short notes on the following :

(i) Leaf curl of papaya.

(ii) Grassy shoot disease of sugarcane.

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