

**G-4/412(A)/21**

Roll No. ....

**M.Sc. IV Semester Examination, 2021**

**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 epidemiology.
2. What are systemic fungicides ?
3. What are phytoalexins ?
4. Define vertical resistance.
5. Write the name of causal organism of ergot of rye.
6. Write the name of causal organism of ear cockle of wheat.
7. Write the name of causal organism of bacterial blight of rice.

P.T.O.

[ 2 ]

8. Write the name of causal organism of little leaf of brinjal.

**SECTION B**

**6×4=24**

**(Short Answer Type Questions)**

**Note :** *Attempt one question from each unit.*

**Unit-I**

1. Write characteristic features of a good/ideal fungicides.

*Or*

Write short note on plant quarantine.

**Unit-II**

2. Write short note on defense through hypersensitive reactions.

*Or*

Distinguish between vertical and horizontal resistance.

**Unit-III**

3. Describe damping of potato disease in brief.

*Or*

Write short note on bacterial blight of potato.

**G-4/412(A)/21**

**Unit-IV**

4. Write short note on general characters of nematodes.

Or

Describe little leaf of brinjal.

**SECTION C****12×4=48****(Long Answer Type Questions)**

**Note :** Attempt one question from each unit.

**Unit-I**

1. Describe chemical control of plant diseases.

Or

Describe prophylactic methods of plant disease control.

**Unit-II**

2. What do you mean by resistance and susceptibility ? Give a general account and types of resistance in host plants.

Or

Describe the structural defense of host plants against pathogens.

**Unit-III**

3. What are wilt diseases ? Describe the mechanism of wilting and symptoms of wilt diseases.

Or

Describe leaf blight diseases of potato.

**Unit-IV**

4. Describe any two viral diseases of crop plants.

Or

Write short note on the following :

(a) Ear cockle disease of wheat

(b) Sandle spike

★ ★ ★ ★ ★ c ★ ★ ★ ★ ★