

AE-775

M.Sc. (Final)

Term End Examination, 2016-17

BOTANY

Paper - IV (A)

Plant Pathology

Time : Three Hours] [Maximum Marks : 100

[Minimum Pass Marks : 36

Note : Answer any **five** questions. All questions carry equal marks. Draw diagrams wherever necessary.

1. Write general characters of plant pathogenic fungi and explain their recurrence in soil borne diseases.
2. Describe the nature of virus and disease symptoms in crop-plants.
3. What is Inoculum Potential ? Describe the mode of infection in any air borne fungal disease.

(2)

4. Explain host parasitic relationship of any **two** of the following :
 - (a) Protomyces in coriander
 - (b) Phytophthora in potato
 - (c) Colletotrichum in sugarcane
5. Describe biological practices in plant disease control.
6. Describe physiology and parasitism of wilt disease in Arhar.
7. Explain the role of environmental factors in plant diseases.
8. Write notes on any **two** of the following :
 - (a) Citrus canker disease
 - (b) Die-back in chillies
 - (c) Root-knot in brinjal
9. Write notes on the following :
 - (a) Plant quarantine
 - (b) Means of securing disease resistant varieties

(3)

10. Compare any **two** of the following :

- (a) Powdery mildew and downy mildew in pea
 - (b) Loose smut and covered smut in wheat
 - (c) Leaf blast and leaf brown disease in paddy
- _____