

PC-503
M.Sc. Botany (FOURTH SEMESTER)
Examination- JUNE-2020
Optional
Paper-
PLANT PATHOLOGY-II

Time:- Three Hours]

[Maximum Marks:80

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note: Answer from both the section as directed. The Figures in the right-hand margin indicate marks.

Section-A

1. **Answer the following in very brief.** **1x10**
- (a) What is phyllosphere?
 - (b) Give name of two air borne disease of plants?
 - (c) Define plant quarantine?
 - (d) What is biological method of plant disease control?
 - (e) Give name of the diseases caused by fungi in Wheat?
 - (f) Give name of two diseases caused by Bacteria in Rice?
 - (g) Name with causal organism any 2 diseases of crop plants caused by viruses?
 - (h) Give two diseases of Brinjal caused by fungi.
 - (i) Give symptoms of bacterial diseases of Papaya.
 - (j) What are the mycoplasmal diseases? How they differ from bacterial diseases.
2. **Answer the following question in short** **2x5**
- (a) What is disease recurrence?.
 - (b) Describe significance of chemical control of diseases of plants?
 - (c) Give a short account of rust of Wheat.
 - (d) Define smut of Bajra.
 - (e) Comment upon the Red Rot of Sugarcane.

Section B

Unit-I

3. Write an article on "Soil Borne Diseases of plants" **15x4**
OR
Comment upon -
(a) Air borne diseases of Plants.
(b) Rhizosphere.

Unit-II

4. What are the principles of plant diseases control. Elaborate.
OR
Describe the "Breeding for diseases resistant varieties"

Unit-III

5. Describe the life cycle of loose smut of Wheat in detail.
OR
Describe fungal disease of Rice.

Unit-IV

6. Give a general account on diseases of Coriander.
OR
Comment upon- (Any -2)
(a) Tikka disease of Groundnut.
(b) Rust of Linseed.
(c) Late blight of Potato.
(d) Leaf curl of Papaya.