

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

**Time:- Three Hours ]**

**[Maximum Marks:80**

**नोट :** दोनो 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.