

Roll No. : .....

Total No. of Questions : 11 ]

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# **BPP-1070**

**M.Sc. (Previous) Examination, 2022**

**BOTANY**

Paper - I

**(Microbiology, Phycology, Mycology and Plant Pathology)**

*Time : 3 Hours ]*

*[ Maximum Marks : 75*

**Section-A**

**(Marks : 2 × 10 = 20)**

**Note :-** Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

**Section-B**

**(Marks : 5 × 5 = 25)**

**Note :-** Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

**Section-C**

**(Marks : 10 × 3 = 30)**

**Note :-** Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

**Section-A**

1. Attempt all questions.

(i) Define Archaeobacteria.

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- (ii) Write a short note on Allergy.
- (iii) Write a note on pigments of Rhodophyceae.
- (iv) Write salient features of Xanthophyta.
- (v) Define Algal Blooms.
- (vi) Write general characters of Zygomycotina.
- (vii) Write a note on Heterothallism.
- (viii) Define Mycorrhiza.
- (ix) What is Plant Quarantine ?
- (x) Name any *two* bacterial diseases with their causal organism.

**Section-B**

2. Write a note on general characteristics and role in causing plant diseases of mycoplasma.

*Or*

Write short notes on the following :

- (a) Immunity
  - (b) Antigen and antibodies
3. Describe thallus organization of algae.

*Or*

Write a brief account on Navicula.

4. Describe Algae Biofertilizers.

*Or*

Describe sexual and asexual reproduction in Synchronium.

5. Write a note on Parasexual Cycle.

*Or*

Write a note on role of Fungi in production of Alcohol.

6. Write Etiology and control measures of blast disease of Paddy.

*Or*

Write a detailed note on different methods of Plant Disease Control.

### **Section–C**

7. Write a detailed note on salient features and biological importance of cyanobacteria.

8. Write short notes on the following :

(a) Phaeophyta

(b) Rivularia

9. Describe life-cycle of Pilobolus.

10. Describe Etiology and control measures of Tikka disease of Groundnut.

11. Explain life-cycle of Colletotrichum.