

Roll No. : .....

Total No. of Questions : 11 ]

[ Total No. of Printed Pages : 3

# **BPG–1081**

**M.Sc. (Previous) Examination, 2021**

**BOTANY**

Paper - I

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

*Time : 1½ 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**

2 each

1. Attempt all questions :

- (i) Define Eubacteria.
- (ii) Write a short note on Immunity.

**BI–659**

( 1 )

**BPG–1081** P.T.O.

- (iii) Write a note on Pigments of Cyanophyceae.
- (iv) Write salient features of Bacillariophyta.
- (v) Define Fossil Algae.
- (vi) Write general characters of Gymnomycotina.
- (vii) Write a note on fungi as food and fodder.
- (viii) Define Antibiotics. Name any *two* with the name of their sources.
- (ix) Name any *four* fungal diseases with their causal organism.
- (x) What is Crop Rotation ?

**Section-B**

5 each

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

*Or*

Write short notes on the following :

- (a) Serology
  - (b) Types of Vaccines
3. Describe sexuality in algae.

*Or*

Write a brief account on Acetabularia.

4. Describe nitrogen fixation in algae.

*Or*

Describe asexual reproduction in peronospora.

5. Write a note on Mushroom Cultivation.

*Or*

Describe process of spermatisation in Puccinia.

6. Describe Tundu disease of wheat.

*Or*

Plant Quarantine.

**Section–C**

10 each

7. With the help of suitable diagram describe replication of virus.

8. Write short notes on the following :

(a) Salient features of Rhodophyta

(b) Describe Nitella

9. Describe life-cycle of Synchytrium.

10. Describe life-cycle of Chaetomium.

11. Describe etiology and control measures of powdery mildew of grapes.