

# LJ-513

# M.Sc. Botany

1st Semester Examination, July-Dec., 2020

## Paper - III

Microbiology, Phycology and Mycology

Time : Three Hours] [Maximum Marks : 80

Note : Answer from all the Units and Question Number 1 is compulsory. All questions carry equal marks.

1. Write notes on the following :

(a) Gram positive bacteria

(b) Economic importance of virus

(c) Diatoms

(d) Saprophytic fungi

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(Turn Over)

### (2)

#### Unit-I

2. Give an account on cyanobacteria.

#### OR

Write notes on the following:

(a) Economic importance of Bacteria

#### (b) Ultra structure of Bacteria

#### Unit-II

3. Give an account on isolation and purification of virus.

#### OR

Write notes on the following :

- (a) Phytoplasma
- (b) Replication of virus

#### Unit-III

4. Describe in brief the structure and reproduction of phaeophyta.

#### OR

Write short notes on the following :

- (a) Asexual reproduction in Vaucharia
- (b) Thallus organization in Chlorophyta

### (3)

#### Unit-IV

5. Give an account of Zygomycotina.

#### OR

Write short notes on the following:

(a) Mycorrhiza

(b) Cercospora