



ED-329

M.Sc. 1st Semester
Examination, March-April 2021

MICROBIOLOGY

Paper - III

Time : Three Hours] [*Maximum Marks* : 80

Note : Answer **all** questions in which Question Number 1 is compulsory. All questions carry equal marks.

1. Write short notes on the following :
 - (a) Heterothallism in fungi
 - (b) Cell wall of Archaeobacteria
 - (c) Classification of cyanobacteria
 - (d) General account of TMV

Unit-I

2. Give detailed account of distribution, reproduction and importance of algae.

OR

Write short notes on the following :

- (a) Symbiotic association of fungi with plants and animals
- (b) Sex hormones in fungi

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(Turn Over)

(2)

Unit-II

3. Describe the phenomenon of conjugation in bacteria.

OR

Write short notes on the following :

- (a) Gene cloning vector
- (b) Protozoa

Unit-III

4. Describe nutritional types of bacteria in detail.

OR

Write short notes on the following :

- (a) Bacterial growth kinetics
- (b) Asynchronous and synchronous growth cultures

Unit-IV

5. Give detailed account of viral reproduction with suitable example.

OR

Write short notes on the following :

- (a) Virus related agents
- (b) Hepatitis virus