



ED-314

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

BOTANY

Paper - I

Cytology

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

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. Write a note on cell wall.

OR

Write notes on any **two** of the following :

- (a) Ion carriers
- (b) Site for ATPase
- (c) Bilayer model of plasma membrane

Unit-II

2. Write a note on gene expression of chloroplast.

OR

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(Turn Over)

(2)

Write notes on any **two** of the following :

- (a) ATPases
- (b) Genome organisation of mitochondrion
- (c) RNA editing

Unit-III

3. Write a note on mitosis and meiosis.

OR

Write notes on any **two** of the following :

- (a) Structure of nuclear pore
- (b) Ribosome functional significance
- (c) Structure of nucleus

Unit-IV

4. Write a note on in situ hybridization.

OR

Write notes on any **two** of the following :

- (a) Golgi apparatus
 - (b) Electron microscope
 - (c) Microbodies
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