



GD-314

M.Sc. 1st Semester
Examination, Dec.-Jan., 2022-23

BOTANY

Paper - I

Cytology

Time : Three Hours] [Maximum Marks : 80

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

Unit-I

1. Describe the structure and functions of plasma membrane.

OR

Write short notes on any two of the following :

- (a) Structural organization of the plant cell
- (b) Structure of cell wall
- (c) Fluid mosaic model of plasma membrane

Unit-II

2. Describe the structure and genome organization of mitochondria.

OR

Write short notes on any two of the following :

- (a) Genome organization of chloroplast
- (b) ATPases transporters as a storage organelle
- (c) Plant vacuole

Unit-III

3. Describe the mechanisms of programmed cell death. <https://www.hyvonline.com>

OR

Write short notes on any two of the following :

- (a) Structure of Nucleus
- (b) Functions of Ribosome
- (c) Meiosis division

Unit-IV

4. Write detail note on Endoplasmic reticulum with functions.

OR

(3)

<https://universitynews.in/>

Write short notes on any two of the following :

- (a) Golgi apparatus
- (b) Micrometry
- (c) Microtubules and Microfilaments

<https://www.hyvonline.com>

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