M. Sc. (First Semester)

EXAMINATION, Dec.-Jan., 2018-19

BOTANY

Paper First

(Cytology)

Time: Three Hours

Maximum Marks: 80

ote: Attempt all the four questions. One question from each Unit is compulsory. All questions carry equal marks.

Unit-I

Describe the functions of plasma membrane.

Or

Write short notes on any two of the following:

- Specialized plant cell types
- Structure of plant cell wall
- (iii) Exergonic and endergonic reactions

Unit-II

Write an account on structure and genome organisation of Chloroplast.

(B-46) P. T. O.

Write short notes on any two of the following :

- Biogenesis of mitochondria (i)
- Plant vacuole
- (iii) RNA editing

Unit-III

Give an account on nucleus and nucleosome organisation

Write short notes on any two of the following:

- Cell cycle
- Structure of ribosome
- (iii) Programmed cell death

Unit---IV

4. What are microfilaments and intermediate filaments Describe their structure and functions.

Or

Write short notes on any two of the following:

- (i) Lysosome
- Micrometery (ii)
- (iii) Immunotechniques (any two)