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BVS/18/03401

**MJ-519**

**M.Sc. Botany**  
3rd Semester Examination, July-Dec., 2021

Paper - I

Plant Development and Plant Resources

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

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

**Unit-I**

1. Explain the various theories regarding the structure development and theories of the differentiation of root apex.

**OR**

Write notes on any two of the following :

- (a) Control of cell division
- (b) Lateral roots
- (c) Bud dormancy

( 2 )

**Unit-II**

2. Describe the structure and functions of phloem elements with the help of suitable diagrams.

**OR**

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

- ✓ (a) Histogen theory
- ✓ (b) Laticifers
- (c) Hydathodes

**Unit-III**

3. Write an essay on senescence of leaf. 422 → D ✓

**OR**

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

- ~~D. 424~~ (a) Development of flower ✓ 36
- (b) Sex determination in plants
- (c) Trichome

**Unit-IV**

4. Write an account on food plants.

**OR**

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

- (a) Timber yielding plants of India
  - (b) Vegetable oil-yielding crops
  - (c) Tannins and dyes
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41