

Exam. Code : 210004  
Subject Code : 4854

M.Sc. Botany 4<sup>th</sup> Semester (Batch 2020-22)  
**STRUCTURE AND METABOLISM OF PLANT  
HORMONES**

Paper—BOTC-622

Time Allowed—3 Hours] [Maximum Marks—50

Note :—Attempt FIVE questions in all, selecting at least ONE question from each section. The fifth question may be attempted from any section. All questions carry equal marks.

**SECTION—A**

1. Write short notes on the following :
  - (a) Hormonal homeostasis 5
  - (b) Physiological role of Auxins in plants. 5
2. Describe in detail the regulation of Auxins levels in plants. 10

**SECTION—B**

3. Explain the following :
  - (a) Biosynthesis of Gibberellins in plants 5
  - (b) Physiological role of Brassinosteroids. 5
4. Explain the following :
  - (a) Regulation of Cytokinin in plants 5
  - (b) Bioassay of Cytokinins. 5

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### SECTION—C

5. Write short notes on the following :
- (a) Biosynthesis of Brassinosteroids 5
  - (b) Physiological role of Ethylene in plants. 5
6. Describe in detail the biosynthesis of Abscissic acid in plants. 10

### SECTION—D

7. Write short notes on the following :
- (a) Jasmonic acid synthesis inhibitors 5
  - (b) Physiological role of Jasmonic acid. 5
8. Describe briefly the tumor induction by Pseudomonas. 10