

**M.Sc. Botany - 4th Semester
(2721)**

Paper : BOTC-622 Structure & Metabolism of Plant Hormones

Time allowed: 2 hrs.

Max. Marks: 50

Note: There are EIGHT questions of equal marks. Candidates are required to attempt any FOUR questions.

Section A

1. Write short note on the following:
 - a) Characteristics of Plant hormones
 - b) Hormonal homeostasis
2. Describe the biosynthesis of Auxins in plants.

Section B

3. Explain the following:
 - a) Regulation of Gibberellins in plants
 - b) Terpenoid pathway
4. Describe briefly the physiological role of Cytokinins in plants.

Section C

5. Write short note on the following:
 - a) Inhibitors of Brassinosteroids biosynthesis
 - b) Bioassay of Brassinosteroids
6. Explain briefly:
 - a) Biosynthesis of Ethylene
 - b) Physiological role of Abscissic acid

Section D

7. Describe in detail the regulation of endogenous level of Jasmonic acid.
8. Explain the microbial genes involved in IAA and Cytokinin synthesis.
