

M.Sc. Botany - 4th Semester

(2720)

Paper - BOTC-622

Structure & Metabolism of Plant Hormones

Time allowed: 2 hrs.

Max. Marks: 50

Note: Attempt any four questions. All questions are of equal marks.

1. Explain in detail General features of Plant hormones, their bioassays, extraction and homeostasis?
2. Discuss Physiological role, biosynthesis and regulation of IAA in higher plants.
3. Discuss the following:
 - (i) Physiological roles of GAs
 - (ii) Other substances with GA- like activity
4. What do you understand by the term "Anticytokinins"? State compounds with cytokinin like activity?
5. Write short note:
 - (i) Biosynthesis of brassinolide
 - (ii) Inhibitors of brassinosteroids
6. Discuss the following:
 - (i) ABA synthesis inhibitors and its regulation
 - (ii) Synthetic compounds that produces ethylene
7. Give the structure, discovery, biosynthetic pathway of Jasmonic acid.
8. Write briefly about the following: -
 - (i) Microbial genes involved in IAA and CK biosynthesis.
 - (ii) Biology of genetic transformation by *A. tumefaciens*.
