

**B.Sc- BOTANY SYLLABUS UNDER CBCS
CORE PAPER..VI SEMSTER-VI
PLANT PHYSIOLOGY AND ECOLOGY**

BLOCK-I PLANT PHYSIOLOGY AND PLANT BIOCHEMISTRY

Unit-1: Water-plant Relations

Unit-2: Mineral Nutrition

Unit-3: Enzymes

BLOCK-II PHOTOSYNTHESIS

Unit-4: Photosynthesis

Unit-5: Carbon assimilation of pathways

Unit-6: Translocation of solutes

BLOCK-III(PLANT RESPIRATION METABOLISM AND NITROGEN METABOLISM)

Unit-7: Respiration

Unit-8: Nitrogen metabolism and Nitrogen fixation

Unit-9: Phyto hormones and physiology of flowering

\BLOCK-IV ECOLOGY

Unit-10: Ecosystem

Unit-11: Ecological successions

Unit-12: Environmental pollution

**B.SC PRACTICAL-VI
PLANT PHYSIOLOGY AND ECOLOGY**

BLOCK- PLANT PHYSIOLOGY

Unit-1: Plasmolysis

Unit-2: Separation of chlorophyll pigments

Unit-3: Determination of catalase activity using potato tubers by titration method

Unit-4: Evolution of oxygen during photosynthesis

Unit-5: Plant growth measurement by lever auxanometer

BLOCK-II: ECOLOGY

Unit -6: Hydrophytes

Unit-7: Xerophytes

Unit-8: Determination of PH of soil sample

**B.SC BOTANY SYLLABUS UNDER CBCS
FOR VI.SEMESTER**

ELECTIVE PAPER-VI-B

PLANT DISEASE MANAGEMENT

BLOCK-I: PLANT PATHOLOGY

Unit-1: Introduction to plant pathology, concept, history, progress, scope

Unit-2: Plant diseases (Cereals, Pulses & Vegetables)

Unit-3: Plant diseases (Cash crops and fruit plants)

Unit-4: Disease with insects and pests.

BLOCK-II FUNGICIDES AND INSECTICIDES

Unit-5: Fungicides-I

Unit-6: Fungicides-II

Unit-7: Insecticides.

BLOCK-III: PLANT DISEASE CONTROL-BIOCONTROL

Unit-8: Bio control:-Definition, history, properties and scope

Unit-9: Bio control agents:-Types, characters, identification

**BLOCK-IV: DISEASE MANAGEMENT THROUGH GENETIC
MECHANISMS**

Unit-10: Breeding for Resistance

Unit-11: Brief account of transgenics

Unit-12: Patents