

**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