

**SARDAR PATEL UNIVERSITY**  
**Programme & Subject: B.Sc (Bio Chemistry)**  
**Semester: VI**  
**Syllabus with Effect from: November-2013**

<b>Paper Code: US06CBCH02</b>	<b>Total Credit: 3</b>
<b>Title Of Paper: Plant Biochemistry.</b>	

Unit	Description in detail	Weightage (%)
<b>I</b>	Plant cell Structure, Biochemistry of Specialized Plant cell Organelles , Primary and Secondary cell wall, Plasmodesmata ( structure and Function ), Water relations of plants: Role of water, Absorption, Adsorption, Conduction and Transpiration, Guttation, Water Balance and Stress.	<b>25%</b>
<b>II</b>	Secondary Metabolites-Phenols, Tannins, Lignin, Flavonoids, Waxes, Cutin and Suberin-structures and functions.	<b>25%</b>
<b>III</b>	Photosynthesis: Hill's Reaction, Light Reaction, Dark Reaction C <sub>3</sub> and C <sub>4</sub> cycles, Photo Respiration, Factors affecting rate of Photosynthesis.	<b>25%</b>
<b>IV</b>	Plant Hormones: Auxins, Cytokinins, Gibberalic acids, Absisic acid, Brassinosteroids, Salicylic acid, Jasmonic acid.	<b>25%</b>

**Basic Text & Reference Books:**

- Plant Physiology by Salis burry and Ross
- Plant Biochemistry by Hans - Walter Heldt

