M.Sc. (Botany) (CBCS Pattern) Sem-II **PSCBOTT05 - Paper-V : Plant Physiology and Biochemistry**

ages: 1 e:Three H	ours * 0 4 7 1 *	GUG/W/22/11195 Max. Marks : 80
Notes:		ion wherever
Giv	re an account on the Evolution of photosynthetic apparatus and light harv	esting complex. 16
	OR	
Wr a) b)	ite on: CAM pathway. Photorespiration.	8
Ex	plain how R.Q. is measured? Add a note on factors affecting rate of resp	iration. 16
	OR	
Wr a) b)	ite on: Oxidative and Non-oxidative Enzymes. Cyanide resistant chain.	8
	÷ ÷	o acid 16
	OR	
Wr a) b)	ite on: Catabolism of starch and sucrose. Nitrogen cycle.	8
Wr	ite in detail water transport through xylem.	16
	OR	
Wr a) b)	ite on: Nomenclature and classification of enzymes. Activators and Inhibitors.	8
Wr a) b) c) d)	ite short notes on: CO ₂ fixation. Respiratory ratio. Symbiotic Bacteria. Colligative properties of enzymes.	4 4 4 4
	Writal by writal	Notes: 1. All questions are compulsory and carry equal marks. 2. Solve your answer with suitable diagram and write chemical reactinecessary. Give an account on the Evolution of photosynthetic apparatus and light harv OR Write on: a) CAM pathway. b) Photorespiration. Explain how R.Q. is measured? Add a note on factors affecting rate of resp OR Write on: a) Oxidative and Non-oxidative Enzymes. b) Cyanide resistant chain. Write the classification and properties of Amino acids. Add a note on amin biosynthesis in plant. OR Write on: a) Catabolism of starch and sucrose. b) Nitrogen cycle. Write in detail water transport through xylem. OR Write on: a) Nomenclature and classification of enzymes. b) Activators and Inhibitors. Write short notes on: a) CO ₂ fixation. b) Respiratory ratio. c) Symbiotic Bacteria.
