19P329		(Pages: 1)	Name
	7	THIRD SEMESTER M.Sc. DEGREE EXAMINATIO	Reg. No
00	4.01	(CBCSS-PG)	NA AND DIO CHEL MCEDIA
CC	191	P BOT3 C07 - PLANT PHYSIOLOGY, METABOLIS (Botany)	SM AND BIOCHEMISTRY
		(2019 Admission Regular)	
Tim	ie: '	Three Hours	Maximum: 30 Weightage
I. A	nsv	wer any <i>four</i> questions. Each question carries 2 Weightag	e.
	1.	Which are the physiological effects of phytochromes?	
,	2.	What is Saponification? Cite its importance.	
	3.	What is water potential?	
4	4.	What is gluconeogenesis?	
:	5.	What are allosteric enzymes?	
(6.	What are chromoproteins?	
,	7.	What is isoelectric point of amino acids.	
			$(4 \times 2 = 8 \text{ Weightage})$
II. Answer any <i>four</i> questions. Each question carries 3 weightage.			ge.
:	8.	Describe the biochemistry of biological nitrogen fixation	1.
9	9.	Explain the physiology of phloem loading.	
	10.	Explain the impacts of drought stress in plants.	
	11.	Write a note on mechanism of enzyme action.	
	12.	What are the anapleurotic reactions of Krebs cycle?	
	13.	Differentiate denaturation from renaturation of proteins.	
	14.	Evaluate the supramolecular architecture of membranes.	
			(4 x 3 = 12 Weightage)
III.	An	swer any <i>two</i> questions. Each question carries 5 weightag	re.

- 15. Differentiate C3 cycle from CAM. Add a note on their ecological significance.
- 16. Explain ETS. Discuss the protein complexes taking part in electron transport system.
- 17. Elucidate the biosynthesis of purines and pyrimidines.
- 18. What is a peptide bond? Explain the three dimensional structure of proteins.

 $(2 \times 5 = 10 \text{ Weightage})$