LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034			
		Y AND PLANT BIOTECHNOLOGY	
FIFTH SEMESTER – NOVEMBER 2014			
PB 5521/5515/5509/5500 - PLANT PHYSIOLOGY			
Date : 30/10/2014 Time : 09:00-12:00	Dept. No.	Max. : 100 Marks	
PART-A			
Answer the following, each w	ithin 50 words only:	(10x2=20marks)	
 Define Imbibition. What are antitranspirant Write the specific role of Write the deficiency synthmatics Write a note on krantz at Define red drop. Write a note on Transart What are cytochromes? Define parthenocarpy. Comment on vernalizat 	of manganese in plants. mptom of iron in plants. anatomy. nination.		
PART-B			
Answer the following, each w Draw diagrams wherever nec	•	(5x7=35marks)	
Draw diagrams wherever nec	•		
Draw diagrams wherever nec 11. a. Explain in detail the t Or	cessary:		
Draw diagrams wherever nec 11. a. Explain in detail the t Or	transpiration pull and cohesion of transpiration and guttation.		
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PART-C	
Answer any THREE of the following, each within 1200 words only: Draw diagrams wherever necessary:	(3x15=45marks)

- 16. Describe the mechanism of stomatal transpiration.
- 17. What are essential elements? Explain the role of nitrogen and phosphorous to plants and how their deficiency affects the plant growth.
- 18. Explain cyclic and non cyclic photophosphorylation of photosynthesis.
- 19. Give an account on Krebs cycle.
- 20. What are phytohormones? Describe the physiological role of gibberellins in higher plants.

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