Reg. No	Name	14U607
B.Sc. DEGREE END SEME	STER EXAMINATION - MARCH 20	20
SEMESTER – <b>6</b>	:: BOTANY (CORE COURSE)	
	NT PHYSIOLOGY AND BIOCHEMISTE	RY
	mentary - 2014 Admission)	
Time: Three Hours	Tentary 2014 Admissiony	Max. Marks : 60
Time. Timee floats	PART A	Wax. Warks . 00
I. Answer ALL questions; each question carr		
1. What is Guttation?	TICS I Mark	
2. What is DPD?		
3. Name a pentose sugar.		
4. What is chlorosis?		
5. An example of a simple protein enzym	ie	
6. Define pH.		
7. What is Red drop?		
8. What are Phytochromes?		$(1 \times 8 = 8)$
	PART B	
II. Answer ANY SIX questions; each question	n carries 2 marks.	
9. List two characteristic features of C4 p	lants.	
10. What is RUBISCO?		
11. What are buffers? What is its significar	nce?	
12. What is R.Q.? What is its significance?		
13. What is vernalization?		
14. What is phloem loading?		
15. What are the factors affecting photosy	nthesis?	
16. Distinguish between fats and oils.		
17. What is the importance of transpiration	on in plants?	
18. Explain Photoperiodism.		$(2 \times 6 = 12)$
	PART C	
III. Answer ANY FOUR questions; each quest	tion carries 4 marks.	
19. Give a schematic representation of Glyc	olysis.	
20. Explain Munch's Hypothesis.		
21. Explain enzyme kinetics.		
22. Explain the primary structure of protein	ıs.	

23. What are the major characteristics of enzymes?

24. Describe cyclic photophosphorylation.

 $(4 \times 4 = 16)$ 

## **PART D**

- IV. Answer ANY TWO questions; each question carries 12 marks.
  - 25. Explain the structure, characteristics and mode of action of enzymes.

OR

- 26. With a schematic diagram, explain the Dark reaction of photosynthesis.
- 27. What are phytohormones? Describe the different types and their physiological roles in plants.

OR

28. Explain the process of aerobic respiration leading to the signature of ATP

 $(12 \times 2 = 24)$ 

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