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SECTION - B (35 Marks)
 Answer **ALL** questions
ALL questions carry **EQUAL** Marks

(5 × 7 = 35)

Question No.	Question	K Level	CO
11.a.	How does osmosis differ from diffusion?	K1	CO1
	(OR)		
11.b.	Summarize the main role of vernalization.	K2	
12.a.	Identify the photosynthetic phenomenon revealed by the Red Drop effect.	K3	CO2
	(OR)		
12.b.	Analyze the factors affecting photosynthesis.	K4	
13.a.	Apply your knowledge of anaerobic respiration to explain the biochemical reactions involved.	K3	CO3
	(OR)		
13.b.	Categorize the various factors interaction to determine the rate of respiration.	K4	
14.a.	Weak acid and its conjugate base are preferred for buffer preparation. Justify.	K5	CO4
	(OR)		
14.b.	Elaborate the classification of carbohydrates.	K6	
15.a.	Explain the Chemical nature and properties of enzymes.	K5	CO5
	(OR)		
15.b.	Discuss the about isoenzymes.	K6	

SECTION -C (30 Marks)
 Answer **ANY THREE** questions
ALL questions carry **EQUAL** Marks

(3 × 10 = 30)

Question No.	Question	K Level	CO
16	Explain the aspects of transpiration.	K2	CO1
17	Identify the various key components and their roles in the dark reaction of photosynthesis.	K3	CO2
18	Examine the Key Concepts in Electron Transport Chain and Oxidative Phosphorylation.	K4	CO3
19	Criticize the Classification and functions of amino acids.	K5	CO4
20	Elaborate on the mechanism of enzyme inhibition with a suitable example.	K6	CO5

Z-Z-Z

END