

ADMISSION NUMBER

School of Basic Sciences

Bachelor of Science Honours in Chemistry Semester End Examination - Nov 2023

Duration : 180 Minutes Max Marks : 100

Sem V - C2UE503B - Plant Physiology and Metabolism

General Instructions

Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Explain the mechanism of Stomatal movement.	K1 (2)
2)	How do plants control the opening and closing of stomata during day and night?	K2 (4)
3)	Write elaborative notes on- carbon fixation.	K2 (6)
4)	Describe biological nitrogen fixation (examples of legumes and non-legumes).	K3 (9)
5)	Describe the principle of oxidation.	K3 (9)
6)	Explain the importance of enzymes in plant biochemical reactions.	K5 (10)
7)	What is CAM- Reaction? Mention the importance CAM.	K4 (12)
8)	Discuss the role of the Krebs cycle in plant respiration.	K5 (15)
9)	Explain the process of lignin biosynthesis and its role in plant cell walls.	K5 (15)
10)	Give a detailed account on dietary supplements and antioxidants	K6 (18)