

ADMISSION NUMBER											

School of Biological and Life sciences

Bachelor of Science Honours in Microbiology Mid Term Examination - May 2024

Duration: 90 Minutes Max Marks: 50

Sem II - P1UC201T - Microbial 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

	Draw neat, labelled diagrams wherever necessary Approved data hand books are allowed subject to verification by the Invigilator						
1)	What are anaerobic bacteria? Give example.	K2 (2)					
2)	What is fermentation, and how does it differ from aerobic respiration?						
3)	Define uniport transport.						
4)	Explain substrate level phosphoryation with suitable example.						
5)	How do bacteria perceive and respond to external signals?						
6)	Explain the reaction catalysed by pyruvate dehydrogenase enzyme.						
7)	Discuss the concentration gradient influence on nutrient transport in prokaryotic cells?	K4 (8)					
8)	Explain glycolysis and calculate the amount of ATP synthesised after glucose undergoes glycolysis.						
OR							
	Provide a detailed account of glycolysis mentioning the steps, enzymes and energy yield per molecule of glucose utilized.	K4 (12)					