GALGOTIAS UNIVERSITY

ADMISSION NUMBER												

School of Biomedical Science

Bachelor of Science in Medical Biotechnology
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem IV - Q1UG404T - Fermentation technology

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)	Contrast the end products of respiration and fermentation.	K2	(2)
2)	Identify the differences between fermentation and respiration in terms of NAD+ regeneration	K1	(3)
3)	Explain the utilities of the enzyme lipase in detergent and fuel industries.	K2	(4)
4)	Describe the 'Crabtree effect" in yeast.	K2	(6)
5)	Exemplify a fermentation process where an actinomycetes is being used.	K3	(6)
6)	Illustrate the differences between solid state and submerged fermentation.	K3	(9)
7)	Illustrate different subcategories of lactic acid fermentation with suitable examples of representative bacteria.	K4	(8)
8)	Categorize with examples the five major clusters of fermentation product and list the names of responsible microbes for each case.	K4	(12)

OR

	Explain the utilisations of substrates in mass and energy flow using a pie chart while channelising the mass and energy into product and biomass formation.	K4	(12)