

ADMISSION NUMBER

School of Biological and Life sciences Bachelor of Science Honours in Microbiology

Mid Term Examination - Nov 2023

Duration: 90 Minutes Max Marks: 50

Sem III - C2UC304B - Microbial Genetics and Genomics

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)	What were the seven characteristics of pea plant studied by mendel?	K2 (2)
2)	Explain the features of plasmids that code for colicin?	K1 (3)
3)	Identify the mutagenic effects of UV rays.	K2 (4)
4)	How are R plasmids different from F plasmids?	K2 (6)
5)	Outline the mechanism of mutation by one physical and one chemical mutagen.	K3 (6)
6)	Assess the mechanism of plasmid replication.	K3 (9)
7)	Analyze the phenomenon and the possible effects of frame shift muatation.	K4 (8)
8)	Assess the main functions of different genes on the Ti-plasmid.	K4 (12)
	OR	
	Assess the features of F-plasmid and discuss its importance.	K4 (12)