

ADMISSION NUMBER

School of Biological and Life sciences
Bachelor of Science in General Zoology Botany Chemistry
Mid Term Examination - Mar 2024

Duration: 90 Minutes Max Marks: 50

Sem VI - P1UG601B - Cytogenetics Plant Breeding and Nanotechnology

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)	Show, what happen if there is no nucleolus in the cell?	K2 (2)
2)	Describe the structure of a typical eukaryotic chloroplast.	K1 (3)
3)	Illustrate the cell theory and its postulates.	K2 (4)
4)	Explain mesosome in a prokaryotic cell? Mention the function that it performs?	K2 (6)
5)	Select the differences between DNA and RNA.	K3 (6)
6)	Select the differences between prokaryotic and eukaryotic ribosomes.	K3 (9)
7)	Examine Which cell organelle is known as a powerhouse of cells & why?	K4 (8)
8)	Analyze the statement that " Plasma membrane is described as" protein iceberg in a sea of lipids".	K4 (12)
	OR	
	Analyze the structure and functions of polytene chromosomes with a well labelled diagram.	K4 (12)