

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

School of Biological and Life sciences

Bachelor of Science Honours in Biomedical Science

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

Sem IV - P1UC403B - Gene Technology and Human WelfareGeneral 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) Name Two transgenic plants. K2 (2)
- 2) What are DNA ligases? How do these enzymes participate in the recombinant DNA technology? K1 (3)
- 3) What are plasmids? What is the importance of plasmids for the recombinant DNA technology? K2 (4)
- 4) Explain the nomenclature of restriction Endonuclease with example. K2 (6)
- 5) Differentiate between various kinds of restriction enzymes. K3 (6)
- 6) What are vectors in the context of gene manipulation? Provide examples of commonly used vectors. K3 (9)
- 7) Elaborate the various enzymes used in gene cloning. K4 (8)
- 8) Explain the various methods of gene transfer. K4 (12)

OR

Elaborate the common methods used to screen and select recombinant colonies in molecular cloning experiments. K4 (12)