Name									Printed Pages:01		
Student Admn. No.:											
School of											
Summer Term Examination – July - August 2024											
[Programme: B.Sc.] [Semester: 4) [Bat								ch:]			
Course Title: Gene Technology And Human Welfare								Max Marks: 100			
Course Code: P1UC403B							Time: 3 Hrs.				
Instructions: 1. All questions are compulsory.											
	2. Assume missing data suitably, if any.										
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								Level	COs	Marks	
SECTION-A (15 Marks) 5 Marks each											
1.	What are plasmids? What is the importance of plasmids for the recombinant DNA technology?									5	
	How does germplasm conservation contribute to the preservation of genetic diversity									5	
2.	in plant and animal species?										
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3.	Explain the nomenclature of restriction Endonuclease with example.									5	
SECTION-B (40 Marks) 10 Marks each											
4.	What are vectors in the context of gene manipulation? Provide examples of commonly used vectors.									10	
	Elaborate the role of pharmacogenetics and pharmacogenomics in improving									10	
5.	translational medicine										
6.	Explain the various methods of gene transfer.									10	
7.	How has recombinant DNA technology revolutionized various fields such as mediciNe, agriculture, and biotechnology?									10	
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SECTION-C (45 Marks) 15 Marks eac											
8.	What is the process of creating transgenic plants, and what tools and techniques are commonly used in this process?									15	
9.	Explain the process of N2 fixation in agriculture.									15	
10	Discuss the importance of the interaction between plants and microbes in agricultural ecosystems.									15	