## 1604N193

Candidate's Seat No :\_\_\_\_\_

## M.Sc Semester-2 Examination

407

Zoology

Time: 2-30 Hours]

April-2024

[Max. Marks : 70

		April-2024	Max.	Marks:	
Q-I	1	write a note on spontaneous mutations.			
	2	What are jumping genes? Discuss.	···		
		OR			
	1	Describe the positive control of <i>lac</i> operon		(14	
	2	Explain the maternal effect with an example of a water snail coiling phenotype.			
	т-				
Q-II	1	Write a note on aneuploidy.	<del></del>		
	2	Write on: Unbalanced chromosome aberrations.			
		OR			
	1	Write a note on mechanism of sex determination.		(14)	
	2	What are multifactorial disorders? Explain with an example.			
Q-III	1				
Q-III	1	Describe "Autoimmunity" in brief.			
	2	Give a note on humoral immune response.			
	1	OR Evaloin Lair G. T. C.	(14)		
	2	Explain briefly: Types of immunoglobulins.			
		Discuss allergy reaction in detail.			
Q-IV	1 Explain the latex agglutination test.				
	2	Give a note on clinical applications of ELISA.			
	1	OR Discuss the role of graft in transplantation.		(14)	
	2	Describe "Immunoelectrophoresis" in brief.			
		minute curopholesis in orier.			
Q-V		Answer any SEVEN out of TWELVE.			
	1	What is satellite DNA?		(14)	
	2	Group III introns are also known as and		02	
	3	Within the <i>lac</i> operon, the protein is encoded by the <i>lacY</i> gene and the		02	
		enzyme is encoded by the <i>lacY</i> gene and the	e	02	
	4	Differentiate between trisomy and triploidy.			
	5	Give an example of euploidy in animal kingdom		02	
	6	Which chromosome aberrations can be observed in live births in humans?		02	
	7	Add a note on "MHC".		02	
	8	Mention the functions of macrophages.		02	
	9	Mention the role of haptens.		02	
	10	Define: Phenomenon of "Precipitin ring".		02	
	11	What is MLR testing?		02	
		Define: Familial grafting.		02	
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