This question paper contains 2 printed pages]

## GA-90-2023

## FACULTY OF SCIENCE AND TECHNOLOGY

## B.Sc. (Second Year) (Fourth Semester) EXAMINATION

## APRIL/MAY, 2023

(NEW PATTERN)

ZOOLOGY

Paper VIII

(Cell Biology and Genetics)

(Saturday, 6-5-2023) Time: 2.00 p.m. to 4			
Time—Two Hours	Maximum Marks—40		
N.B. := (i) Attempt $All$ questions.	of Self Sign Sul		
(ii) Illustrate your answers wit wherever necessary.	ch suitable and labelled diagrams		
1. Describe the structure and functions of	f Plasma membrane. 15		
Or Or			
(a) Explain the Mendel's Law of Inc	dependent Assortment. 8		
(b) Give an account on inhibitory fa	actor. 7		
2. What is crossing over? Explain the r	mechanism of crossing over and its		
significance.	15		
Or Or			
(a) Explain Genic balance theory of	Bridge with an example. 8		
(b) Give an account of sex-linked in	heritance in Drosophila. 7		

P.T.O.

WT			(2)	ESPEN.	GA—90-	-2023
3.	Write	short notes on any tw	o of the	following	2763	10
	(a)	Endoplasmic Reticulum				

- Endoplasmic Reticulum (a)
- (*b*) Law of segregation
- Polyploidy (c)
- Down syndrome. (*d*)

2