Roll No.

DD-782

M. Sc. (Fourth Semester) ews.11 EXAMINATION, 2020

ZOOLOGY

(Group—I)

Paper Second

(Cell Biology)

Time : Three Hours

Maximum Marks : 80

Note : All questions are compulsory and carry equal marks. Illustrate your answer with suitable diagram wherever necessary.

1.	(a)	What is Barr body ?	2
	(b)	Write its significance.	2
	(c)	What is leucin zipper?	4
	(d)	Write about chorion gene.	4
	(e)	What are segmentation genes ?	4
		Unit—I	

2. What is chromatin remodelling ? Describe the events of such action with suitable illustrations. 16

https://universitynews.in/

Or

How do you explain the organization and significance of sex chromatin ? 16

Unit—II

- 3. Write short notes on the following : 8 each
 - (a) Transposons
 - (b) Mutation repair

Or

Describe the eukaryotic transcriptional machinery with suitable examples. 16

16

Unit—III

4. Write a note on muscular dystrophy.

Or What role does DNA rearrangement play in genetics ?

Unit-IV

- 5. (a) What is homeobox ? 6
 - (b) Describe its significance in evolution. 10

Or

How does development of *Drosophila* appendages occur?