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NY-92-2023

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(New/CBCS Pattern)

ZOOLOGY

Paper Zool-XII

(Molecular Cell Biology)

(Thursday, 7-12-2023)

Time: 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

- N.B.:— (i) Attempt All questions.
 - (ii) All questions carry equal marks.
 - (iii) Illustrate your answers with suitable labelled diagrams wherever necessary.
- 1. Discuss the fluid mosaic model of plasma membrane structure.

Or

Describe in detail composition and functions of cytoskeleton.

2. Elaborate about replication of DNA in eukaryotes.

15

15

Or

Explain in detail the coding, non-coding and satellite DNA in eukaryotes.

P.T.O.

WT		(2) NY—92—	-2023
3.	Descri	ibe the process of RNA processing in eukaryotes.	15
		Or	
	Discus	ss in detail different types of ribonucleoproteins.	
4.	Expla	in about types and characteristics of cancer.	15
		Or	
	Elaborate about signaling by insulin receptor.		
5.	Write	short notes on any three of the following (5 marks each):	15
	(a)	Di-Acyl Glycerol (DAG)	
	(b)	Heterochromatization	
	(c)	DNA amplification	
	(d)	Active transport.	