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## B.Sc. I Semester Degree Examination, March/April - 2023 ZOOLOGY

### Cytology, Genetics and Infectious Diseases

#### (NEP)

Time : 2 Hours			Maximum Marks : 60	
Not	t <b>e :</b> (i)	Answer <b>all</b> sections.		
	(ii)	Draw labelled diagrams whenever necessary.		
		SECTION - A		
1.	Answ	ver the following sub-questions in <b>one</b> word or <b>one</b> sentend	ce each. <b>10x1=10</b>	
	(a)	What do you mean by Penetrance ?		
	(b)	What is cell theory ?		
	(c)	Define elephantiasis.		
	(d)	What is Apoptosis ?		
	(e)	Name the vector of Trypanosoma.		
	(f)	What is Autocrine signalling ?		
	(g)	What is sex linked inheritance ?		
	(h)	Expand ECM and ATP.		
	(i)	What is Maternal inheritance ?		
	(j)	What is dominant epistasis ?		
		SECTION - B		
	Answer <b>any four</b> of the following questions. <b>4x5=2</b>			
2.	Explain the type and inheritance of sex determination.			
3.	Briefly explain the steps for intercellular signalling.			
4.	Explain the ultra structure of polytene chromosome with a neat labelled diagram.			
5.	Write a short note on 'inheritance' of colour blindness and its effects in human beings.			
6.	Explain the inheritance of comb pattern in fowls.			
7.	Brief	Briefly explain the structure and functions of Ribosomes.		

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#### **SECTION - C**

Answer any three of the following questions.

3x10=30

- **8.** Describe the polygenic inheritance in human beings.
- **9.** Describe Singer and Nicholson's fluid Mosaic model of Plasma Membrane. Add a note on its functions.
- 10. Write a detailed note on second law of Mendel by taking an appropriate example.
- **11.** Describe the different stages of the prophase-I of meiosis with the help of labelled diagram.
- **12.** Discuss the life cycle and Pathogenesity, Symptoms, prevention and diseases caused by Giardia lamblia. (Giardia lamblia)

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