

Reg. No.:	
Name :	

## III Semester B.Sc. Degree (CCSS - Reg./Supple./Imp.) Examination, November 2014 CORE COURSE IN ZOOLOGY 3B03 ZLG: Cytology and Immunology

(2010 Admission Onwards) Time: 3 Hours Max. Weightage: 25 Instruction : Draw diagram wherever necessary. SECTION - A Essay (answer any one): (Weight, 4) Explain the structure and functions of ribosomes. Compare and contrast spermatogenesis and oogenesis.  $(1 \times 4 = 4)$ II. Essay (answer any one): (Weight. 4) 3) Give an account on the structure and function of plasma membrane. Describe parthenogenesis. Comment on different types of parthenogenesis.  $(1 \times 4 = 4)$ III. Short essay (answer any one): (Weight. 2) Differentiate between meiosis and mitosis. Discuss on benign and malignant tumours.  $(1 \times 2 = 2)$ IV. Short answers (answer any four): (Weight. 1)

- State cell theory.
- 8) Give names of any two fixatives.
- Comment on prions.
- 10) What are vital stains? Give example.
- 11) What are microbodies? What are their functions?
- 12) Define transmembrane transport and vesicular transport.
- 13) Comment of fixation and its aims.  $(4 \times 1 = 4)$

P.T.O.



V. A	nswer the following:			(Wt : 1 each)	
14)	a)	is a stair	ușed in electron microsc	ору.	
	b) micrometer is used in eyepiece.				
	c) Protein synthesis	nesis takes place in			
	d)	is a connective tissue.			
15)	Match the following:				
	a) Leptotene	abrawa Din	Cell line		
	b) L-cells		Golgi complex		
	c) Cellular secretion	:	Mitosis		
(	d) Electron transpor	t chain :	Parthenogenesis		
			Mitochondria		
	He(V)		Meiosis	(2×1=2)	
			ION-B		
VI. Ar	nswer any two:			(Wt:4)	
16)	What are antibodies	? What are the	eir function?		
17)	Comment on haptens	3.		wag son public in	
18)	Account on autoimmune reactions.				
19)	Distinguish between natural and acquired immunity. (2x4=			(2×4=8)	
VII.20)	Fill in the blanks :			(Wt. 1)	
	a)	is an autoimmune disease.			
	b)	_ is a class of	antibody.		
	c) are also called incomplete antigens.				
	d)	_cells are invo	olved in cell mediated imn	nunity. (1×1=1)	

15) What nie vroit states 7 sins examples