Reg.	No	. :	 	 	
Name	9 :		 	 	

III Semester B.Sc. Degree (CCSS – Supplementary) Examination,
November 2017

(2013 and Earlier Admissions)

CORE COURSE IN ZOOLOGY

3B03 ZLG: Cytology and Immunology

Time: 3 Hours

Max. Weightage: 25

SECTION – A (Cell Biology)

I. Essay (Answer any one):

(Weight: 4)

- Illustrate spermatogenesis and oogenesis.
- Give an account on the structure and function of endoplasmic reticulum.
- II. Essay (Answer any one):

(Weight: 4)

- Explain the types of parthenogenesis. Comment on its significance.
- Give an account on the structure and function of plasma membrane.
- III. Short essay (Answer any three):

(Weight: 2 each)

- Discuss on the scope and significance of stem cells.
- 6) Comment on the working principle of light microscope.
- Give an account on history and scope of cell biology.
- 8) Describe the significance of mitosis.
- 9) Discuss on benign and malignant tumours.

 $(3 \times 2 = 6)$

IV. Short answers (Answer any four):

(Weight: 1 each)

- 10) Comment on viroids.
- 11) What are microbodies?
- 12) What are cytoskeleton? Comment on their importance.

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13) Comment on myco	olasma.		off peri			
14) Name any two vital	stains.		amenta			
15) What is fixation ? C	ive exa	mple for a fixative.	Marian Marian			
16) Give the functions	of golgi o	complex.	(4×1=4)			
V. Answer the following:			(Weight:1 each)			
17) a) is an	17) a) is an example for cytoskeleton in a cell.					
	Protein synthesis takes place in present in cytoplasm.					
	is a white blood cell.					
d) Neutral red is a		_stain.				
18) Match the following	g:					
a) L-cells	_	Electron microscopy				
b) Drosophila	-	Golgi complex				
c) Bouin's fluid	-	Och mic				
d) Uranyl acetate	-	Parthenogenesis				
unwacowa administration	00 10 no	Fixation				
	-	Giant chromosome	(2×1=2)			
		SECTION - B				
			SOEKE MAD (F			
VI. Answerany two:			(Weight : 2 each)			
19) What are antigens	?	n to some tilinglit brut enpod arti				
20) What is primary im		esponse?	io kraminio D. (8 1			
21) What is allograft re			7) Give an acc			
22) Illustrate the typica			(2×2=4)			
VII. 23) Match the followin			(Weight :1)			
a) IgG	_	Autoimmune response				
b) Phagocytes	_	Incomplete antigens				
c) Haptens	_	Antibody				
d) T Cells	megran	Neutrophils				
	-	Cell mediate immunity				