



K20U 1560

Reg. No.:....

Name :

V Semester B.Sc. Degree (CBCSS-Reg./Sup./Imp.) Examination, November 2020 (2014 Admn. Onwards) CORE COURSE IN ZOOLOGY 5B07ZLG: Cell Biology and Immunology

Time: 3 Hours

Max. Marks: 40

PART - A

Answer any one of the following.

 $(1 \times 8 = 8)$

- 1) Explain the Fluid mosaic model for the structure of Plasma membrane.
- 2) With the help of diagrams, explain the process of meiosis.
- II. Answer any one of the following.

 $(1 \times 8 = 8)$

- 3) Explain the functional variants of lysosomes and their function.
- Explain the molecular organization of nucleosome, mention euchromatin and heterochromatin.
- III. Answer any two of the following.

 $(2 \times 3 = 6)$

- Describe the different staining methods used in electron microscopy.
- Compare the chemical composition and structure of Prokaryotic and eukaryotic ribosomes.
- 7) What are oncogenes? Mention its role in cancer formation.
- 8) Differentiate between prokaryotic and eukaryotic chromosomes.
- IV. Answer any six of the following.

(6×1=6)

- 9) Balbiani rings.
- 10) Gap junctions.
- 11) Carnoy's fluid.
- Microtubules.
- Carcinogens
- 14) Chiasmata
- 15) Endomitosis.
- 16) Electron transport chain.



V. Ansv	ver al l	I the following.			(4×1=4
17) a	Which of the following is not present in 80S ribosomes?				
	a)	28S rRNA	b	23S rRNA	
	c)	5S rRNA	Pres (CBCSS-B	5.8S rRNA	
b) The histone, that is not the component of core particle.				
	a)	H2A	b)) H2B	
	c)	H1	d)) H3	
С) Pa	iring of homologou	us chromosomes t	takes place during	
	a)	Leptonema	b)	Zygonema	
	c)	Diplonema	d)	Diakinesis	
d	The secretory centre of the cell is				
	a)	Mitochondria	b)	Lysosomes	
	c)	Golgi bodies	d)	Ribosomes.	
			TANI - D		
			Immunology		
I. Answer any two of the following.					(2×2=4)
18) A	llergy				
19) G	araft re	ejection.			
20) A	cquire	ed immunity			
21) R	Rheum	atic fever			
II. Ans	wer a	ny one of the follo	wing.		(1×4=4)
22)	What	ei man imparito	ilinitarone ann ara	Describe the diffe	rent types of
23)	What	is Major Histo-cor	mpatability Comple	ex r Explain.	