SUBJECT CODE NO: - S-6108 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Sem –IV) (Zoology (Old)) Examination May / June - 2023 Methods in Biology-512

[Tim	e: 3:00	Hours]	[Max. Marks: 80
		Please check whether you have got the right question paper.	
N. B		1) Part A is compulsory.	
		2) Attempt any five questions from part B.	
		3) Draw diagram wherever necessary.	
		Part A	
Q1	Multip	ole choice questions (each questions carries marks)	20
	1.	Chemically an antibody is	
		a. Protein b. Killer T. cills c. Lipid d. Nucleon Por	fion
	2.	Hay fever is due to	
	V Sylve		er T. cells
	3.	AIDS caused by	
		a. RNA virus b. DNA virus c. Herpes virus d. Hepatitis	s virus
	4,	A molecule that produce an immune response is a. Antigen b. antibody c. carcinogen d. mutagen	REPORT OF THE PROPERTY OF THE
	5	Blood group has A and B antigens but no antibodies it is	
	<i>J</i> .	a. A b. O c. AB d. B	
		a. A b. O. O. C. Ab	
	6.	Inflammation reaction is brought about by	
	967.10.	a. Plasma cells b. mast cells c. macrophages d. adipose c	ells
	7.	The immunoglobulins found in mother milk is	
		a. Igm b. IgA c. Ig E d. Ig G	
	V _Q	Chan croid is caused by	
	\$7, 6.	a. H ducregi b. Staphycococci c. strephococci d. non	
	9.	Macrophages are derived from	
		a. Neutrophils b. Lymphocytes c. Monocytes d. Basophi	ls.
	10.	. Agretope is the region of antigen that interacting with	
		a. TCR b. MHC c. a and b d. antibody	

	S-6108
Part B	
Q2 Explain virtualisation of cells and subcellular components by light microsco	py. 12
Q3 Describe analysis of biomolecule using florescence.	12
Q4 Give account of properties of different types of radioisotopes normally used	in biology. 12
Q5 Write in detail isolation and purification of RNA and DNA.	12
Q6 What is DNA sequencing methods AFLP techniques?	12
Q7 Describe Phr logical technique of PET, MRI, IMRI and CAT.	12
Q8 Write a note on radiolabelling techniques in biological tissue and cells.	12
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