PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - APPLIED MICROBIOLOGY

IMMUNOTECHNOLOGY

Ministro I Demito Dog I				
	Time: Three Hours Maximum			50 Marks
		SECTION-A Answer AL ALL questions car	L questions	$(5 \times 1 = 5)$
1		Which of the following immunity is obtained during a lifetime? (i) Acquired immunity (ii) Active immunity (iii) Passive immunity (iv) Innate immunity		
2		Globulins of blood plasma are respons (i) Defence mechanisms (iii) Oxygen transport	(ii) Blood clotting (iv) Osmotic balance	
3		Type I hypersensitivity involves. (i) IgD (iii) IgE	(ii) IgM (iv) IgG	
4		The major molecules for rejection of to (i) B Cells (iii) MHC molecules	ransplant is (ii) T Cells (iv) Antibodies	
5		Sandwich ELISA method is used for to (i) Antibody (iii) Conjugated antibody	he detection of (ii) Antigen (iv) Conjugated antigen	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 1)				$(5 \times 3 = 15)$
6	a What is meant by Innate Immunity? Discuss in brief. OR			
7	b a	Analyze the scope of Immunology in detail. Give an account on the process of Lymphocyte activation. OR		
8	b a	Write the various types of antigens. What is meant by Autoimmunity?		
	OR b Give a neat sketch about the classical pathway of complements.			
9	a	a What is meant by secondary Immunodeficiency? OR		
	b	Give an account on various tumor a	ntigens.	
10	a	What is meant by agglutination? OR		
b Discuss about the process of Immunofluorescence.				

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Categorize the process of humoral and Cell mediated immunity.

OR

- b Elucidate the structure and functions of secondary lymphoid organs.
- 12 a What are Immunoglobulins? Explain its types, structure and function.

OR

- b Enumerate in detail about the origin, development and differentiation of B lymphocytes.
- 13 a Classify the various types of Hypersensitivity reactions, its symptoms, diagnosis and treatment.

OR

- b Interpret in detail about the various immunodeficiency diseases.
- 14 a Elucidate the process of immunodiagnostics of cancer.

OR

- b Discuss in detail about the concepts of Transplantation Immunology.
- 15 a Briefly elucidate the mechanism of Rocket and Counter Immuno electrophoresis and add a note on its application.

OR

b Give a neat sketch about the Immunization process and Immunization Schedule.

Z-Z-Z

END