PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

Branch - BIOCHEMISTRY

BASICS OF IMMUNOLOGY				
	Ti	me: Three Hours	Maximum: 50 Marks	
		SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks	$(5 \times 1 = 5)$	
1.		Choose the Primary Lymphoid organ from the following. (i) Lymph nodes (ii) Thymus (iii) Spleen (iv) Tonsils		
2.		Name the cells which act as Antibody factory . (i) NK cells (ii) Killer cells (iii) Plasma cells (iv) T cells		
3.		Identify the Delayed hypersensitivity condition. (i) Erythroblastosis Foetalis (ii) Asthma (iii) Serum sickness (iv) Measles		
4.		Which of the following activates Complements? (i) Phosphatase enzyme (ii) Catalase enzyme (iii) Protease enzyme (iv) Hydrolase enzyme	,	
5.		Find the type of graft between two genetically identical in species. (i) Autograft (ii) Syngraft (iv) Xenograft	ndividuals of same	
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
6	a	Classify briefly the Innate and Acquired immunity.	(0.120 20)	
	b	OR Explain the factors affecting immunogenicity.		
7	a	Describe the process of Phagocytosis.		
	b	OR Outline the types and significance of T-cells.		
8	a	Show the general structure of Immunoglobulin. OR		
	b	State the applications of Precipitation reaction.		
9	a	production.		
	b	OR Explain the steps involved in Rocket Immuno electrop	horesis.	
10	a	Describe the structure and functions of HLA. OR		
	b	Prepare the Immunization Schedule for Children.		

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SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Differentiate the primary and secondary lymphoid organs in brief.

- b Describe the mechanism of tolerance induction and factors causing Immuno tolerance.
- 12 a Distinguish the structure and functions of White blood cells.

- Analyze the types and mode of action of Cytokines.
- 13 a Discuss the biological functions of Ig G and Ig M.

- b Give an account of Cell mediated Delayed hypersensitivity.
- 14 a Elucidate the salient features and role of Complement components.

- b Discuss the principle, procedure and applications of ELISA.
- 15 a Describe the mechanism of Allograft rejection.

b Distinguish the causes, symptoms, diagnosis and treatment of Rheumatoid arthritis and Myasthenia gravis.

END