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## PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

# **BSc DEGREE EXAMINATION MAY 2023**

(Fourth Semester)

### Branch - **BIOCHEMISTRY**

### **BASICS OF IMMUNOLOGY**

	Time: Three Hours		Maximum: 50 Marks	
	ATT a	SECTION-A (5 Marks) Answer ALL questions questions carry EQUAL marks	$(5 \times 1 = 5)$	
*	ALL	questions carry EQUAL marks	$(3 \times 1 - 3)$	
1.	encounter with the same (i) Helper T cells	(ii) Memory cells	d post any subsequent	
	(iii) Plasma cells	(iv) basophil		
2.	Which of the following (i) Neutrophils (iii) NK cells	are phagocytic cells derived from (ii) Mast cells (iv) Macrophages	m monocytes?	
3.	Name the class of immu (i) IgG (iii) IgA	unoglobulin which takes part in l (ii) IgE (iv) IgM	nypersensitivity reaction?	
4.	Some of the activated B (i) Plasma cells (iii) Memory cells	B-cells lead to the formation of sh (ii) Evanescent wave (iv) Thymus cells		
5.	The transfer of individu (i) Autograft (iii) Allograft	als own tissue to another part of  (ii) Xenograft  (iv) Syngeneic graft	the body is called.	
	ALL (	SECTION - B (15 Marks) Answer ALL Questions Questions Carry EQUAL Marks	$(5 \times 3 = 15)$	
6	a. Compare innate and a	acquired immunity. OR		
	b. Explain the mechanis			
7	a. Elaborate the function	Elaborate the functions of neutrophils. OR		
	b Explain the mechanis	sm of action of cytokines.		
8		Outline the functions of immunoglobulins.  OR		
•	b Explain the delayed h	nypersensitivity.		

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9 a Compare the myelomas and hybridomas.

OR

- b Explain the role of complement components.
- 10 a Explain the term vaccines.

OR

b Elaborate the autoimmunity.

#### **SECTION -C (30 Marks)**

Answer **ALL** questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11 a Elaborate the primary and secondary lymphoid organs.

OR

- b Discuss the immunogenicity and the factors affecting immunogenicity.
- 12 a Elaborate the structure and functions of various eosinophils, basophils and monocytes.

OR

- b Discuss the structure and functions of NK Cells.
- 13 a Explain the properties of different types of immunoglobulins.

OR

- b Discuss the antigen-antibody interactions.
- 14 a Explain the clonal selection theory.

OF

- b Elaborate the principle and applications of immunoelectrophoresis technique.
- 15 a Discuss the graft rejection.

OR

b Explain the types of immunization.

Z-Z-Z

**END**