## PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

# MSc DEGREE EXAMINATION MAY 2024

(Fourth Semester)

### Branch - BIOCHEMISTRY

		IMMUNOLOGY	
T	me: Three Hours		Maximum: 50 Marks
	A	SECTION-A (5 Marks) Answer ALL questions LL questions carry EQUAL marks	$(5 \times 1 = 5)$
1		lls is involved in cell-mediated immur (b) T cells (d) Thrombocytes	,
2	Which of the following statements is true about the IgM of humans?  (a) IgM can cross the placenta  (b) IgM can protect the mucosal surface  (c) IgM is produced by high-affinity plasma cells  (d) IgM is primarily restricted in the circulation		
3	The ability of an organism (a) Infection (c) Immunity	to resist infections by the pathogens i (b) Hypersensitivity (d) Allergy	s called
4	Name the cytokines which released in response to virus infection.  (a) Interferons (b) Monokines (c) Lymphokines (d) Interleukins		
5	Which of the following imm (a) Innate Immunity (c) Passive immunity	nunity is called the first line of defend (b) Active immunity (d) Acquired immunity	ce?
	ALL (	SECTION - B (15 Marks) Answer ALL Questions Questions Carry EQUAL Marks	$(5 \times 3 = 15)$
6	a. List out clinical uses of	stem cells.	(0.20 10)
7	a. Elucidate the various types of immunoglobulin.  OR b. Give an account on mitogens.		
8	a. Discuss about the immun	nity in viral infections.	
	b. Explain the structure and	d properties of cytokines.	

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9 a. Write a note on multivalent subunit vaccine.

OR

- b. Discuss the concept of passive immunization.
- 10 a. Describe the structure and vaccine of AIDS.

OR

b. Give a note on cancer chemotherapy.

#### SECTION - C (30 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11 a. Discuss the haematopoietic growth factors.

OR

- b. Describe the development and differentiation of B and T cell.
- 12 a. Elaborately discuss MHC classes and its types.

OR

- b. Discuss the types and biological characteristics of antigen.
- 13 a. Describe the principle, procedure and instrumentation of ELISA.

OR

- b. Explain the principle and procedure of fluorescence immunoelectron microscopy.
- 14 a. Describe the primary and secondary immuno deficiency disorders.

OR

- b. Elucidate the different types of hypersensitivity reaction.
- 15 a. Enumerate the mechanism of graft rejection.

OR

b. Discuss the autoimmune disease in human.

Z-Z-Z END