PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - ZOOLOGY

INTRODUCTION TO IMMUNOLOGY

Time: Three Hours		Maximum: 50 Marks
	ALL o	SECTION-A (5 Marks) Answer ALL questions questions carry EQUAL marks (5 x 1 = 5)
l	The ability of an organicalled (i) Infection (iii) Immunity	(ii) Hypersensitivity (iv) Allergy
2	Name the cytokines wh (i) Interferons (iii) Lymphokines	nich released in response to virus infection? (ii) Monokines (iv) Interleukins
3	Which of the following (i) IgG (iii) IgA	g antibody gives a primary immune reaction? (ii) IgM (iv) IgE
4	Agglutination reaction (i) Antigens (iii) Complement	is more sensitive than precipitation for the detection of (ii) Antibodies (iv) Antigen-Antibody Complexes
5	Which of the following (i) Skin (iii) Mucus	g does not act as a protecting barrier for the body surface? (ii) Gastric acid (iv) Salivary amylase
	ALL	SECTION - B (15 Marks) Answer ALL Questions Questions Carry EQUAL Marks (5 x 3 = 15)
6	a Discuss the mononu	OR
		ocytic cells and its role in immune system.
7	a Distinguish the allo	OR
0	b Explain about polyc	
8	a Enumerate the roleb Comment on antige	of MHC class I molecules in cell mediated immunity. OR en presenting cells.

Cont...

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9 a Discuss on the agglutination test.

OR

- b Enumerate the procedure of complement fixation test.
- 10 a List out the B-cell receptors.

OR

b Relate the stages of graft rejection process.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Enumerate the role of T cells in cell mediated immunity its types.

OR

- b Describe the cellular constituents of the lymphoreticular system.
- 12 a Give a detailed account of the structure of IgM.

OR

- b Summarize the disorders of immunoglobulin synthesis.
- 13 a Analyze the processing of antigen-antibody interaction.

OR

- b Describe role of MHC molecules in immune responsiveness and disease susceptibility.
- 14 a Criticize the interaction of corona virus with covid vaccines.

OF

- b Elucidate the any TWO immune assays using radio labeled reagents.
- 15 a Explain in detail how classical complement pathway is activated and regulated.

OR

b Explain the hypersensitivity reaction with suitable examples.

END

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