

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION DECEMBER 2025
(Third Semester)

Branch - **ZOOLOGY**

INTRODUCTION TO IMMUNOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following immunity is called the first line of defense? a) Innate Immunity b) Active immunity c) Passive immunity d) Acquired immunity	K1	CO1
	2	Which of the following cells is involved in humoral immunity? a) T-cells b) B-cells c) Mast cells d) Both T and B cells	K2	CO1
2	3	Name the molecule that induces or elicits an immune response. a) Antigens b) Antibodies c) Epitope d) Immunogens	K1	CO2
	4	Any substance or molecules that interact with antibodies are called..... a) Antigens b) Antibodies c) Epitope d) Immunogens	K2	CO2
3	5	What is the name of MHC in humans? a) HLA b) H2 c) Adjuvants d) Haplotype	K1	CO3
	6	Which of the following polypeptide is important for the expression of MHC I on the cell membrane? a) Interferons b) β2-microglobin c) Lymphokines d) Interleukins	K2	CO3
4	7	In hybridoma technology, hybrid cells are selected in..... a) MS medium b) HAT medium c) x-gal medium d) Whites medium	K1	CO4
	8	Who developed RIA? a) Berson & Yalow b) Chals & Wastone c) Vector & Logan d) Lewis & Bronstand	K2	CO4
5	9	Which type of hypersensitivity response is most likely evoked by Pollen? a) Cytotoxic (Type II) b) Immune complex (Type III) c) Cell-Mediated (Type IV) d) Immediate type (Type I)	K1	CO5
	10	Which cells are transplanted to treat cancer like leukaemia? a) Haematopoietic stem cells b) Red blood cells c) White blood cells d) Epithelial cells	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain about Phagocytic cells in response to Antigens.	K2	CO1
		(OR)		
	11.b.	Describe the role of different Immune cells.		
2	12.a.	Explain the characteristics of Monoclonal Antibodies.	K3	CO2
		(OR)		
	12.b.	Analyse the Expression of Immunoglobuline genes.		
3	13.a.	Elaborate the Major Histocompatibility complex II structure.	K4	CO3
		(OR)		
	13.b.	Explain the Inheritance of Major Histocompatibility complex.		
4	14.a.	Analyst the interaction of Corona Virus with Covid Vaccines.	K4	CO4
		(OR)		
	14.b.	Explain the Agglutination Reaction of Antigen and Antibody.		
5	15.a.	Give an account on B cell receptors in Antigen processing reaction.	K3	CO5
		(OR)		
	15.b.	Write note on Hypersensitivity reactions.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Discuss the cellular constituents of the lymphoreticular system in Immune system.	K4	CO1
2	17	Elaborate the disorders of immunoglobulin synthesis.	K4	CO2
3	18	Explain the Antigen Processing and presentation.	K5	CO3
4	19	Explain the Importance and applications Immuno assay.	K5	CO4
5	20	Discuss about the transplantation in immunology.	K6	CO5

Z-Z-Z

END