1.

2023

Time - 3 hours

Full Marks - 60

Answer **all groups** as per instructions.

Figures in the right hand margin indicate marks.

Draw labelled diagrams wherever necessary.

GROUP - A

Filli	in the blanks. (all) [1 \times 8
(a)	immunity provides the first line of defence against pathogens.
(b)	T-cell maturation occurs in
(c)	is a hereditary tendency to devlope allergic reaction to substances like food or pollen.
(d)	An agent capable of inducing an immune response is called as
(e)	The study of antigen-antibody reaction in-vitro is called
(f)	is used to denote strength between antibodies and multivalent antigen.

	(g)	antibody constitutes major percentage of total
		serum immunoglobulins
	(h)	The resistance acquired during life of an individual is known
		as immunity.
		<u>GROUP – B</u>
2.		wer <u>any eight</u> of the following questions within two to three tences each. [1½ × 8]
	(a)	What is diapedesis?
	(b)	What are natural killer cells?
	(c)	Define hypersensitivity?
	(d)	What is immunogenicity?
	(e)	What is immune dysfunction?
	(f)	Role of IgE.
	(g)	Functions of cytotoxic T-cells
	(h)	Secondary immune response (Humoral immunity)
	(i)	Neutrophils
	(j)	Chemokines

GROUP C

Write notes on any eight of the following while 25 where ea	
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- (a) Adjuvants
- (b) Anatomical barrier
- (c) AIDS
- (d) Haptens
- (e) Advances in vaccine production
- (f) Inflammation
- (g) TAP proteins
- (h) B-Cell epitope
- (i) Primary lymphoid organs
- (j) Complement system

GROUP - D

Answer II questions within 500 words each.

What is immunity? Give an account of passive and active immunity.

OR

Describe about molecules and organs that are involved in innate immunity.

5. Discuss antigen-antibody interaction	ons.
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OR

Give the structure and functions of different classes of immunoglobulins.

6. Describe the structure and functions of MHC molecules.

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OR

Describe the classical pathway of complement activation.

7. Briefly describe types of hypersensitivity.

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OR

Give an account on various types of vaccines with suitable examples.