

VEER KUNWAR SINGH UNIVERSITY - ARA

B.Sc.

ZOOLOGY (HONOURS) -

PART - III

PAPER - VI

FROM

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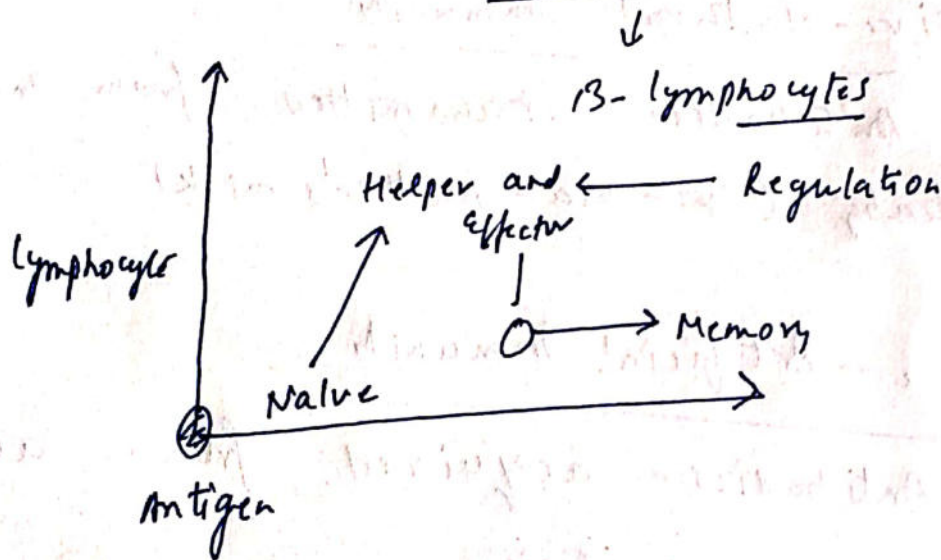
B.S.C. (ZOOLOGY) HONOURS

ADAPTIVE - IMMUNE SYSTEM

PART-II, PAPER-VI

- o Also referred as acquired immune system
- o composed of specialized, systemic cells and processes that eliminates, pathogen by preventing their growth.

T-lymphocytes



Active Immunity -

Immunity - develop after being exposed to an infection or from getting a vaccine

Natural Immunity -

Antibodies made after exposure to an infection

②

## Artificial Immunity -

Antibody made after getting a vaccination.

## Passive Immunity -

Immunity - can be acquire from someone or something else

### Passive - Natural Immunity -

Antibodies transmitted from mother to baby (ex - via - mother's milk)

### Passive - Artificial Immunity -

Antibodies - acquired from - an immune serum medicine

## Immunoglobulin -

- It's also known as antibodies,
- It's glycoprotein molecule produced by plasma cells - white blood cells.
- It act as a critical part of immune response by specifically recognizing and binding to particular antigens.

bacteria or viruses and aiding in their  
destruction ③

### Type of Immunoglobulin

#### 4-type

- (1) Immunoglobulin - G  $\Rightarrow$  Heavy chain of Gamma  $\gamma$ .
- (2) Ig A  $\rightarrow$  Heavy chain of Alpha  $\alpha$ .
- (3) Ig M  $\rightarrow$  Heavy chain of - Mu  $\mu$
- (4) Ig D  $\rightarrow$  Heavy chain of delta -  $\delta$

Next Day - Structure & Function  
of various types of Ig