

## Unit 5: The Immune System

### OBJECTIVE ONE: function of the immune system

- Protects us from most bacteria, viruses, transplanted organs or grafts, also our own cells that have become cancerous

### OBJECTIVE TWO: innate v. adaptive immune system

Nonspecific defense mechanisms		Specific defense mechanisms (immune system)
First line of defense	Second line of defense	Third line of defense
<ul style="list-style-type: none"><li>• Skin</li><li>• Mucous membranes</li><li>• Secretions of skin and mucous membranes</li></ul>	<ul style="list-style-type: none"><li>• Phagocytes</li><li>• Antimicrobial proteins</li><li>• The inflammatory response</li></ul>	<ul style="list-style-type: none"><li>• Lymphocytes</li><li>• Antibodies</li><li>• Macrophages</li></ul>

Figure 43.1

- Innate immune system (first and second lines of defence) is non-specific, quick responding system:
  - o Body surface coverings (intact skin, mucous membranes)
  - o Specialized human cells
  - o Chemical produced by the body
- Adaptive immune system (third line of defence)
  1. Antigen specific: recognizes and acts against specific pathogens
  2. Systemic: action not restricted to initial infection site

3. Memory: recognizes and mounts stronger attack on previously encountered pathogens

### OBJECTIVE THREE AND FOUR: innate body defences and their workings

- First line of defence
  - o Acidic skin pH
  - o Saliva and lacrimal fluid
  - o Stomach mucosa secretions
  - o Mucus in digestive and respiratory pathways
- Second line of defence
  - o Natural Killer (NK) cells
    - Aggressive lymphocytes
    - Can lyse (dissolve) and kill cancer cells or virus-infected cells
    - Release chemicals called perforins to target the foreign cell's membrane and form pores, leading to apoptosis
  - o Inflammatory responses
  - o Phagocytes
  - o Antimicrobial proteins

### OBJECTIVE FIVE: inflammatory response

- Triggered when body tissues are injured
- Functions:
  - o Preventing spread of damaging agents
  - o Disposes of cell debris and pathogens through phagocytosis and sets up for repair
- Cardinal signs
  - o Redness (rubor)
  - o Heat (calor)
  - o Swelling (tumor)
  - o Pain (dolor)
  - o Loss of function (function laesa)
- Three stages inflammation
  1. Inflammatory response

# Immune System Power Notes Answers

**Liying Dong**



## **Immune System Power Notes Answers:**

## Decoding **Immune System Power Notes Answers**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Immune System Power Notes Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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