# ANATOMY AND PHYSIOLOGY

#### THE HUMAN BODY - AN ORIENTATION

#### Anatomy

 Studies the structure of body parts and their relationships.

## Physiology

Study of how the body and its parts work or function.

## Pathophysiology

Extract invertase from Bayer's yeast

#### ANATOMY - LEVELS OF STUDY

#### Gross or Macroscopic Anatomy

- ⇒ Larger structures
- ⇒ Can be seen with the naked eye
- Approached of study: Regional and Systemic Anatomy

## Surface Anatomy

 Study of internal structures as they relate to the overlying skin surface.

## Microscopic Anatomy

- Structures cannot be seen with the naked eye
- Structures can only be viewed with a microscope
- Subdivisions include cytology and histology

## **Developmental Anatomy**

- Traces structural changes that occur in the body throughout the life span.
- Embryology concerns developmental changes that occur before birth.

#### LANGUAGE OF ANATOMY

- Special terminology is used to prevent misunderstanding
- Exact terms are used for
  - 1. Position
  - 2. Direction
  - 3. Regions
  - 4. Structures

#### Anatomical Position

- Person stands erect with feet together and eyes forward
- Palms face anteriorly with thumbs pointed away from the body
- Right and left always refers to the sides belonging to the person of specimen being viewed – never to the viewer.
- Note: Four legged animals have different anatomical position than humans
  - Their ventral is on the inferior side and dorsal in the superior side.
  - In humans, ventral and anterior is the same and so is dorsal and posterior.



# **Human Anatomy And Physiology 1 Study Guide**

**CO Houle** 

**Human Anatomy And Physiology 1 Study Guide:** 

Unveiling the Energy of Verbal Art: An Psychological Sojourn through Human Anatomy And Physiology 1 Study Guide

In a world inundated with screens and the cacophony of instantaneous transmission, the profound energy and psychological resonance of verbal artistry often disappear into obscurity, eclipsed by the regular onslaught of sound and distractions. However, located within the musical pages of **Human Anatomy And Physiology 1 Study Guide**, a fascinating function of literary splendor that pulses with organic feelings, lies an wonderful journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, that mesmerizing opus instructions readers on an emotional odyssey, delicately revealing the latent potential and profound impact stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect its captivating writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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