

Anatomy and Physiology

Study of the structure
and shape of the body

ANATOMY
apart cut

GROSS ANATOMY

-large observable parts

MICROSCOPIC ANATOMY

-too small and can't be seen

Study of the function of
the body parts

PHYSIOLOGY
nature Study of

Differences in the size and shape
of the body parts signifies its
Functions

Structural Organization

CHEMICAL LEVEL - Chemical level

Atoms combine to form molecules.

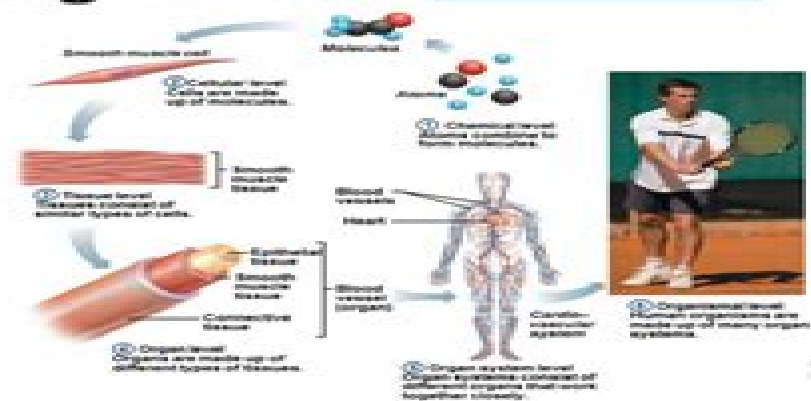
CELLULAR LEVEL - Cells are made up
of molecules

TISSUE LEVEL - Tissues consist of
similar types of cells

ORGAN LEVEL - Organs are made up
of different types of tissues

ORGAN SYSTEM LEVEL - Organ
systems consist of different organs
that work together closely.

ORGANISMAL LEVEL - Human
organisms are made up of many organ
systems.



Organ Systems Overview

INTEGUMENTARY

- Forms the external body covering
- Protects deeper tissue from injury
- Helps regulate body temperature
- Location of cutaneous nerve receptors

MUSCULAR

- Produces movement
- Maintains posture
- Produces heat

SKELETAL

- Protects and supports body organs
- Provides muscle attachment for movement
- Site of blood cell formation
- Stores minerals

NERVOUS

- Fast-acting control system
- Responds to internal and external change
- Activates muscles and glands

Essentials Of Anatomy And Physiology Chapter Notes

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