

Introduction to Anatomy & Physiology

What is Anatomy?

Definition:

Branch of biology which deals with the study of the structure of organisms and their parts

Divided into:

- Macroscopic anatomy or gross anatomy: Study of structures large enough to be seen with the naked eye
- Microscopic anatomy: Study of structures on a microscopic scale using optical instruments

What is Physiology?

Definition:

Study of functioning of living systems i.e. how biomolecules, cells, tissues, organs and organ systems function

What is Pathology?

Study of diseases and disorders and how they affect the body

Four components of disease:

- Etiology (cause of disease)
- Pathogenesis (mechanisms of development of disease)
- Morphologic changes (structural changes in the cells)
- Clinical manifestations (consequences of changes)