

# Introduction to Terminology and Body Organization Study Guide

## Anatomy and Physiology

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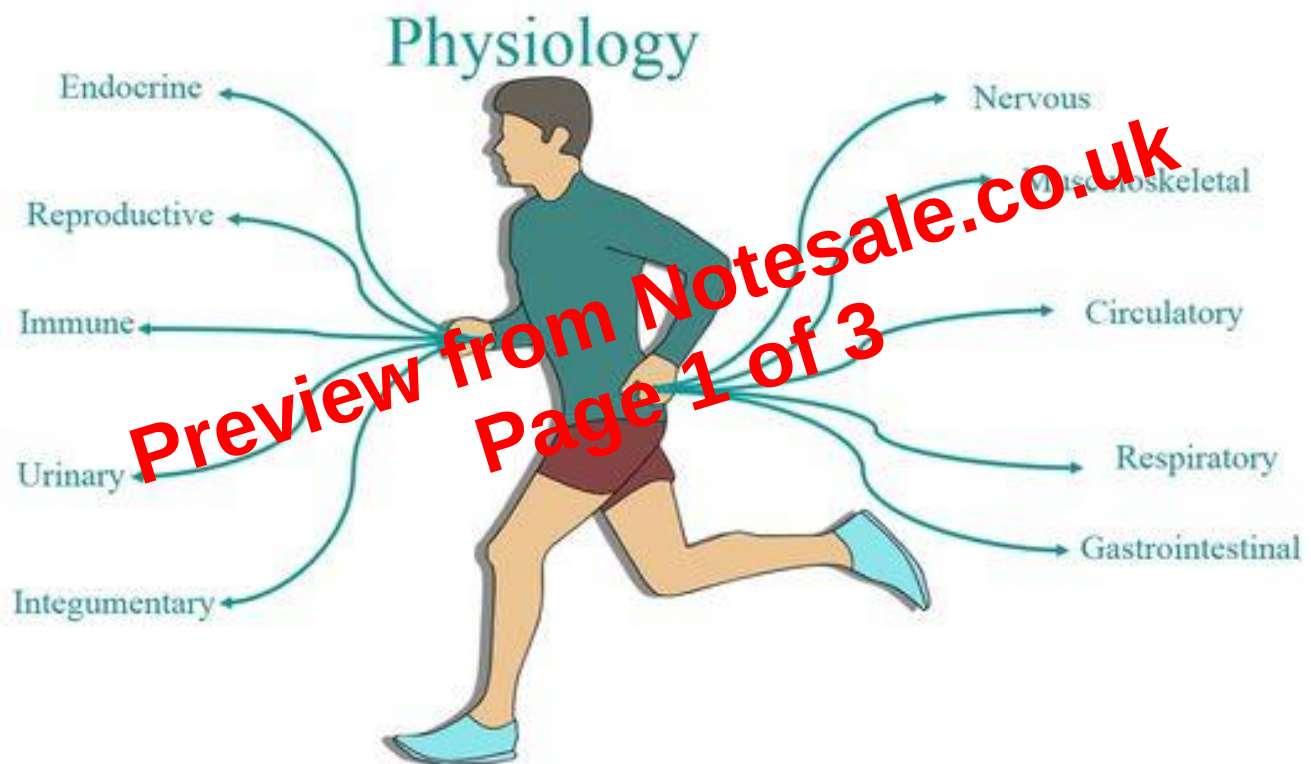
• **Anatomy (dissection)** is the examination of the structure of the human body.

A. **Systemic Anatomy** - the study of the body's structure through systems - this is the method followed by most basic textbooks.

B. **Regional Anatomy** - the study of the anatomy of the body by region (head, abdomen, arm, etc...) - the technique used in the majority of medical and dentistry schools.

C. **Surface Anatomy** - the study of exterior characteristics (bony projections) that aid in the identification of underlying structures.

D. **Anatomical Imaging** - methods for creating images of inside structures (X-rays, ultrasound, magnetic resonance imaging)



• **Physiology** is the study of the activities and parts of the body.

#### A. Physiology's Two Major Goals

1. Predicting the body's reactions to stimuli.

2. How the body must maintain circumstances within a small value range in the face of an ever-changing environment. Divisions of physiology

1. The organism at issue (Human Physiology – the study of a specific organism, the human) 2

2. The several layers of organisation inside an organism (cellular and systemic physiology emphasise specific organisational levels)