

# ANATOMY & PHYSIOLOGY

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### HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



#### Anatomy

The study of the structure of the human body and its internal organs.

#### Physiology

The study of the function of the human body and its internal organs.

#### Structural levels

Studying the human body at the cellular, tissue, organ, and system levels.

- 1. **Cellular level** - study of the structure and function of cells.
- 2. **Tissue level** - study of the structure and function of tissues.
- 3. **Organ level** - study of the structure and function of organs.
- 4. **System level** - study of the structure and function of systems.
- 5. **Whole body level** - study of the structure and function of the whole body.

### CELLS AND TISSUES

Cells are the basic units of structure and function of the human body.



#### Organization of cellular levels

Cells are organized into tissues, organs, and systems.

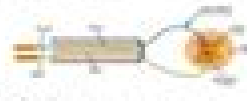
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2. **Tissue level** - study of the structure and function of tissues.

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4. **System level** - study of the structure and function of systems.

5. **Whole body level** - study of the structure and function of the whole body.



The **Epithelium** is the outermost layer of cells that covers the body.

1. **Epithelial cells** - cells that cover the body.

2. **Connective tissue** - tissue that connects the body.

3. **Muscle cells** - cells that contract and move the body.

4. **Nerve cells** - cells that transmit signals throughout the body.

5. **Whole body level** - study of the structure and function of the whole body.

### ORGANS

Organs are structures made up of different types of tissues working together.

1. **Heart** - pumps blood throughout the body.

2. **Lungs** - exchange oxygen and carbon dioxide.

3. **Stomach** - digests food and absorbs nutrients.

4. **Intestines** - absorb nutrients and eliminate waste.

5. **Kidneys** - filter blood and remove waste.

6. **Bladder** - stores urine.

7. **Uterus** - carries and nurtures the developing fetus.

8. **Vagina** - canal for childbirth and menstruation.

9. **Penis** - organ of male reproduction.

10. **Testes** - produce sperm and testosterone.

11. **Prostate** - gland that produces prostatic fluid.

12. **Seminal vesicle** - produces seminal fluid.

13. **Urethra** - tube that carries urine and semen.

14. **Rectum** - stores feces before elimination.

15. **Anus** - opening of the digestive tract.

16. **Esophagus** - tube that carries food to the stomach.

17. **Trachea** - windpipe that carries air to the lungs.

18. **Bronchi** - tubes that branch from the trachea to the lungs.

19. **Alveoli** - small air sacs where gas exchange occurs.

20. **Diaphragm** - muscle that contracts and relaxes to breathe.

21. **Ribs** - bones that protect the lungs and heart.

22. **Sternum** - bone in the center of the chest.

23. **Spine** - column of bones that supports the body.

24. **Skull** - bones that protect the brain.

25. **Joints** - where two bones meet.

26. **Muscles** - tissues that contract and move the body.

27. **Ligaments** - tissues that connect bones.

28. **Tendons** - tissues that connect muscles to bones.

29. **Cartilage** - tissue that cushions joints.

30. **Synovial fluid** - fluid that lubricates joints.

31. **Joint capsule** - sac that surrounds the joint.

32. **Articular disc** - wedge-shaped piece of cartilage between the bones.

33. **Labrum** - ring of cartilage that deepens the joint socket.

34. **Meniscus** - wedge-shaped piece of cartilage between the bones.

35. **Intervertebral disc** - wedge-shaped piece of cartilage between the vertebrae.

36. **Vertebrae** - bones that make up the spine.

37. **Intervertebral foramen** - opening between the vertebrae.

38. **Transverse process** - bony projection from the vertebrae.

39. **Spinous process** - bony projection from the vertebrae.

40. **Superior costal facet** - articular surface on the vertebrae.

41. **Inferior costal facet** - articular surface on the vertebrae.

42. **Costal facet** - articular surface on the vertebrae.

43. **Transverse costal facet** - articular surface on the vertebrae.

44. **Spinous costal facet** - articular surface on the vertebrae.

45. **Intercostal space** - space between the ribs.

46. **Intercostal vein** - blood vessel that carries blood to the lungs.

47. **Intercostal artery** - blood vessel that carries blood to the lungs.

48. **Intercostal nerve** - nerve that carries signals to the lungs.

49. **Intercostal lymphatic vessel** - vessel that carries lymph to the lungs.

50. **Intercostal space** - space between the ribs.

### SYSTEMS

Systems are groups of organs that work together to perform a function.

1. **Cardiovascular system** - pumps blood throughout the body.

2. **Respiratory system** - exchanges oxygen and carbon dioxide.

3. **Digestive system** - digests food and absorbs nutrients.

4. **Excretory system** - removes waste from the body.

5. **Reproductive system** - produces offspring.

6. **Immune system** - defends the body against disease.

7. **Endocrine system** - produces hormones.

8. **Nervous system** - controls the body's actions.

9. **Musculoskeletal system** - moves the body.

10. **Integumentary system** - covers the body.

11. **Sensory system** - receives information from the environment.

12. **Motor system** - controls the body's movements.

13. **Homeostatic system** - maintains the body's internal environment.

14. **Regulatory system** - controls the body's functions.

15. **Support system** - provides structural support.

16. **Transport system** - moves substances throughout the body.

17. **Defensive system** - protects the body from harm.

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#### Cardiovascular system

1. **Heart** - pumps blood throughout the body.

2. **Arteries** - carry blood away from the heart.

3. **Venues** - carry blood back to the heart.

4. **Capillaries** - exchange oxygen and nutrients.

5. **Valves** - prevent backflow of blood.

6. **Coronary arteries** - supply blood to the heart.

7. **Coronary veins** - carry blood away from the heart.

8. **Intercostal arteries** - supply blood to the lungs.

9. **Intercostal veins** - carry blood away from the lungs.

10. **Intercostal nerves** - carry signals to the lungs.

11. **Intercostal lymphatic vessels** - carry lymph to the lungs.

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### NERVOUS SYSTEM

#### Neurons

Neurons are the basic units of the nervous system.

1. **Cell body** - contains the nucleus and organelles.

2. **Dendrites** - receive signals from other neurons.

3. **Axon** - carries signals away from the cell body.

4. **Myelin sheath** - insulates the axon.

5. **Synapse** - junction between neurons.

6. **Terminal buttons** - release neurotransmitters.

7. **Receptor proteins** - receive signals from other neurons.

8. **Ion channels** - allow ions to pass through the cell membrane.

9. **Resting potential** - electrical charge across the cell membrane.

10. **Action potential** - rapid change in electrical charge.

11. **Reflex arc** - pathway for a reflex response.

12. **Sensory neuron** - carries signals from the senses to the brain.

13. **Motor neuron** - carries signals from the brain to the muscles.

14. **Interneuron** - connects sensory and motor neurons.

15. **Neurotransmitter** - chemical messenger between neurons.

16. **Receptor** - protein that receives signals from the environment.

17. **Effector** - organ that responds to signals from the brain.

18. **Feedback loop** - process that maintains the body's internal environment.

19. **Homeostasis** - state of balance in the body.

20. **Stimulus** - change in the environment that triggers a response.

21. **Response** - change in the body that results from a stimulus.

22. **Adaptation** - change in the body that improves its ability to survive.

23. **Evolution** - change in the genetic makeup of a population over time.

### SYSTEMS OF THE BODY

The body is made up of many different systems that work together to perform a function.

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# Medical Anatomy And Physiology Unit 9 Answers

**Shannon E. Perry, Marilyn J.  
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Leonard Lowdermilk**

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web 54013ln shrink tube as detailed with hardware removed original regulator and removed from alternator using the provided 54013ln apply to replacement rectifier ixr543 grease take dummy regulator ix128 dummy regulator ix128 with blue and green wires in their appropriate locations replace being hardware be properly insulating

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section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

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aug 28 2023 radioactivity property exhibited by certain types of matter of emitting energy and subatomic particles spontaneously it is in essence an attribute of individual atomic nuclei radioactive decay is a property of several naturally occurring elements as well as of artificially produced isotopes of the elements

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notes 323 nuclei and radioactivity physics module 7 atoms and nuclei z explain the growth and decay of radioactivity in a sample z calculate the half life and decay constant of a radioactive substance and z explain the uses of radioactivity in various fields 26 1 the atomic nucleus soon after the discovery of nucleus in an atom by rutherford in 1911

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quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

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concepts essentials of nuclear physics table of isotopes fundamental nuclear models liquid drop shell model concept of radioactive decay radioactive decay modes  $\alpha$   $\beta$   $\gamma$  and internal conversion and fission excited states in nuclei electromagnetic transitions angular correlations and polarisation

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discusses the discovery of the atom and its parts the development of nuclear fission in laboratories and how nuclear fission can be and has been used for symmetries in atomic nuclei alejandro frank 2008 12 18 symmetries in atomic nuclei aims to present an overview of recent applications of symmetry to the description of atomic nuclei

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over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they travel to the outer reaches of the solar system others have special properties that allow them to treat different forms of cancer

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radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

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it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

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atomic physics deals with the atom as a system consisting of a nucleus and electrons nuclear physics deals with the nucleus as a system consisting of nucleons protons and neutrons the main difference is in the scale while the term atomic deals with 1Å 10<sup>-10</sup> m where Å is an ångström according to anders jonas ångström the term