

ANATOMY & PHYSIOLOGY

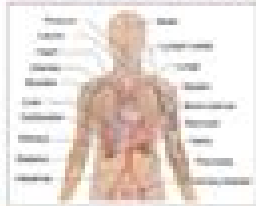
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HUMAN ANATOMY AND PHYSIOLOGY

Study of the human organism and its internal body



Anatomy

The study of the structure of the human body and its parts.

Physiology

The study of the function of the human body and its parts.

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.

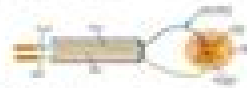
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2. **Tissue level** - study of the structure and function of tissues.

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.



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 tissue** - tissue that contracts the body.

4. **Nervous tissue** - tissue that transmits signals.

5. **Epithelial tissue** - tissue that covers the body.

ORGANS

Organs are structures made of different types of tissues.

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

2. **Lungs** - exchange gases between the body and the environment.

3. **Stomach** - digests food.

4. **Intestines** - absorb nutrients from food.

5. **Kidneys** - filter waste from the blood.

6. **Bladder** - stores urine.

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

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

9. **Penis** - male reproductive organ.

10. **Testes** - produce sperm.

11. **Prostate** - gland that produces semen.

12. **Seminal vesicle** - gland that produces semen.

13. **Utricle** - gland that produces semen.

14. **Bladder** - stores urine.

15. **Urethra** - tube that carries urine.

16. **Penis** - male reproductive organ.

17. **Testes** - produce sperm.

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48. **Utricle** - gland that produces semen.

49. **Bladder** - stores urine.

50. **Urethra** - tube that carries urine.

SYSTEMS

Systems are groups of organs that work together.

1. **Respiratory system** - exchanges gases between the body and the environment.

2. **Circulatory system** - transports blood throughout the body.

3. **Digestive system** - breaks down food into nutrients.

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

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

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

7. **Nervous system** - controls the body's responses.

8. **Endocrine system** - produces hormones.

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

10. **Skin system** - protects the body from the environment.

11. **Thermoregulatory system** - maintains body temperature.

12. **Fluid balance system** - maintains fluid balance.

13. **Electrolyte balance system** - maintains electrolyte balance.

14. **Acid-base balance system** - maintains acid-base balance.

15. **Glucose balance system** - maintains glucose balance.

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23. **Potassium balance system** - maintains potassium balance.

24. **Sodium balance system** - maintains sodium balance.

25. **Chloride balance system** - maintains chloride balance.

26. **Bicarbonate balance system** - maintains bicarbonate balance.

27. **Ammonia balance system** - maintains ammonia balance.

28. **Urea balance system** - maintains urea balance.

29. **Creatinine balance system** - maintains creatinine balance.

30. **Glucose balance system** - maintains glucose balance.

31. **Insulin balance system** - maintains insulin balance.

32. **Glucagon balance system** - maintains glucagon balance.

33. **Epinephrine balance system** - maintains epinephrine balance.

34. **Norepinephrine balance system** - maintains norepinephrine balance.

35. **Dopamine balance system** - maintains dopamine balance.

36. **Serotonin balance system** - maintains serotonin balance.

37. **Melatonin balance system** - maintains melatonin balance.

38. **Cortisol balance system** - maintains cortisol balance.

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41. **Progesterone balance system** - maintains progesterone balance.

42. **Androgen balance system** - maintains androgen balance.

43. **Gonadotropin balance system** - maintains gonadotropin balance.

44. **Luteinizing hormone balance system** - maintains luteinizing hormone balance.

45. **Follicle-stimulating hormone balance system** - maintains follicle-stimulating hormone balance.

46. **Growth hormone balance system** - maintains growth hormone balance.

47. **Prolactin balance system** - maintains prolactin balance.

48. **Oxytocin balance system** - maintains oxytocin balance.

49. **Vasopressin balance system** - maintains vasopressin balance.

50. **Angiotensin balance system** - maintains angiotensin balance.

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 two neurons.

6. **Terminal button** - releases neurotransmitters.

7. **Receptor** - receives signals from other neurons.

8. **Effector** - carries out the response.

9. **Feedback loop** - maintains balance.

10. **Homeostasis** - maintains internal balance.

11. **Stimulus** - triggers a response.

12. **Response** - the body's reaction to a stimulus.

13. **Adaptation** - change in response to a stimulus.

14. **Acclimation** - short-term adaptation to a stimulus.

15. **Evolution** - long-term adaptation to a stimulus.

16. **Survival** - the ability to stay alive.

17. **Reproduction** - the ability to produce offspring.

18. **Growth** - increase in size.

19. **Development** - change in form.

20. **Maturation** - reaching full size.

21. **Senescence** - aging.

22. **Mortality** - death.

CELLS OF NEURONS

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ORGAN SYSTEMS OF THE BODY

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ENDOCRINE SYSTEM

The endocrine system is made up of many different glands.

1. **Hypothalamus** - controls the body's responses.

2. **Pituitary gland** - produces hormones.

3. **Thyroid gland** - produces thyroid hormones.

Anatomy Physiology System Study Guide Answers

G Psacharopoulos



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