

Anatomy and Physiology of the Human Body

Biology · Practice Test · 20 Questions

1. What branch of science deals with the study of the structure of different human body organs?

- A) Physiology
- B) Anatomy
- C) Histology
- D) Neurophysiology

2. Physiology is the branch of science that deals with the study of what aspect of different human body organs?

- A) Structure
- B) Function
- C) Growth
- D) Development

3. Which of the following is a Cranial Bone?

- A) Maxilla
- B) Zygomatic
- C) Occipital
- D) Mandible

4. How many Facial Bones are listed in the text?

- A) 14
- B) 2
- C) 6
- D) 1

5. Fibrous joints are characterized by bones being linked with what type of material?

- A) Cartilage
- B) Synovial fluid
- C) Tough fibrous material
- D) Bone tissue

6. Which type of joint involves bones joined by cartilage?

- A) Fibrous Joint
- B) Cartilaginous Joint
- C) Synovial Joint
- D) Sutures

7. The shoulder joint is an example of which type of joint?

- A) Hinge Joint
- B) Ball and Socket Joint
- C) Pivot Joint
- D) Saddle Joint

8. What is the ability of a physiological system to maintain a stable internal environment despite changes in the external environment called?

- A) Adaptation
- B) Homeostasis
- C) Regulation
- D) Metabolism

9. Which of the following is NOT listed as an example of homeostasis?

- A) Body temperature
- B) Blood sugar
- C) Blood pH
- D) Heart rate

10. The integumentary system includes the skin, hair, nails, sweat glands, and what other type of glands?

- A) Salivary glands
- B) Mammary glands
- C) Oil glands
- D) Adrenal glands

11. What is the main function of the integumentary system regarding body temperature?

- A) Production
- B) Regulation
- C) Absorption
- D) Secretion

12. The skin is composed of how many primary layers?

- A) Two
- B) Three
- C) Four
- D) Five

13. What is the outermost layer of the skin called?

- A) Dermis
- B) Hypodermis
- C) Epidermis
- D) Stratum Corneum

14. Keratinocytes are the most abundant cell type in which layer of the skin?

- A) Dermis
- B) Hypodermis
- C) Epidermis
- D) Stratum Basale

15. What protein produced by keratinocytes provides toughness and makes the skin waterproof?

- A) Melanin
- B) Keratin
- C) Collagen
- D) Elastin

16. Melanocytes produce melanin, a pigment that contributes to skin color and protects from what?

- A) Heat
- B) UV light
- C) Cold
- D) Bacteria

17. Langerhans cells are part of which system and protect the skin from what?

- A) Circulatory system; dehydration
- B) Nervous system; pain
- C) Immune system; microbes
- D) Endocrine system; hormones

18. Merkel cells are specialized cells that receive sensations of touch, pain, etc. Where are they primarily located?

- A) Outermost layer of epidermis
- B) Middle layer of dermis
- C) Deepest layer of epidermis
- D) Subcutaneous tissue

19. Which layer of the epidermis is found only in thick skin and consists of dead, keratinized cells?

- A) Stratum Granulosum
- B) Stratum Lucidum
- C) Stratum Spinosum
- D) Stratum Basale

20. The dermis is divided into how many layers?

- A) One
- B) Two
- C) Three
- D) Four