

Anatomy and Physiology of the Human Body

Biology · Answer Key · 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