

B - Anatomy and Physiology - December 19 SO Practice - 12-19-2020

1. (1.00 pts) Question 1

Characteristics for the cells in the epidermis :  
Are easily damaged by UV light

True  False

2. (1.00 pts) Question 2

The cells in the epidermis protect and waterproof the skin

True  False

3. (1.00 pts) Question 3

Cell in the epidermis contain keratin

True  False

4. (1.00 pts) Question4

Cell in the epidermis participate in immune responses

True  False

5. (1.00 pts) Question 5

The cells in the epidermis contain keratin

True  False

6. (1.00 pts) Question 6

Melanocytes take part in \_\_\_\_\_ .

skin

pigmentation

7. (1.00 pts) Keratinocytes cause pigmentation .

True  False

8. (1.00 pts) Question 6

Langerhans cells are a part of the immune system

True  False

9. (1.00 pts) Merkel cells are \_\_\_\_\_

- A) Responsible for pigmentation
- B) Part of our immune system
- C) Sensory towards touch.
- D) Contain keratin

10. (1.00 pts) Langerhans cells reside in epithelium

- True
- False

11. (1.00 pts) Participate in immune responses

- A) arrector pili
- B) extensor pollicis
- C) anconeus muscle
- D) peroneus brevis

12. (1.00 pts) Melanocytes produce melanin and help keep the skin moist.

- True
- False

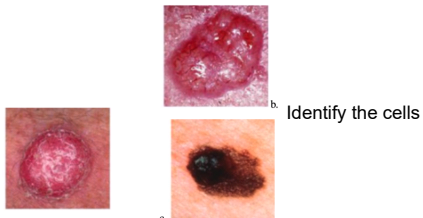
13. (1.00 pts) Both light and dark skinned individuals have the same number of melanocytes.

- True
- False

14. (1.00 pts) Which of the following regarding melanocytes is a true statement

- A) Produce melanin that is responsible for the solar of the skin.
- B) Melanocytes produce melanin and help keep the skin moist.
- C) Both of the above
- D) None of the above

15. (1.00 pts) a.



Expected Answer: a. Basal cell carcinoma. b. Squamous cell carcinoma c. Melanoma

16. (1.00 pts)

Peroneous brevis participates in immune responses

True  False

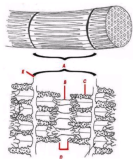
17. (1.00 pts)

Extensor pollicis is not a part of the immune system

True  False

18. (1.00 pts)

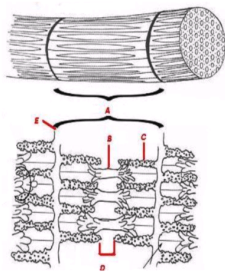
What is the functional unit of the muscle



Expected Answer: Sarcomere

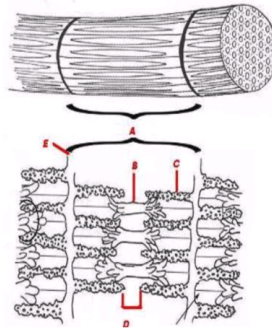
19. (1.00 pts)

What is the main protein in the thick filaments of the muscle - C in the picture



Expected Answer: Actin

20. (1.00 pts)



What happens to the area labeled D when the muscle contracts

- A) The area labeled D becomes bigger
- B) The area labeled D becomes smaller
- C) The area does not change
- D) None of the above

21. (1.00 pts) Which of the following properties is not common to all three muscle tissues, skeletal, smooth and cardiac muscle?

- A) Excitability
- B) At rest, uses shielding proteins to cover actin-binding sites
- C) Elasticity
- D) All of the above
- E) None of the above

22. (1.00 pts) The need for ATP is common to all three muscle tissues, skeletal, smooth and cardiac muscle

- True
- False

23. (1.00 pts) Each skeletal muscle is wrapped in a sheath of dense, irregular connective tissue called the \_\_\_\_\_

Epimysium

24. (1.00 pts) Myosin is a connective tissue

- True
- False

25. (1.00 pts) Myofilament does not wrap the skeletal muscles

- True
- False

26. (1.00 pts) Smooth muscles differ from skeletal and cardiac muscles

- True
- False

27. (1.00 pts) Smooth muscles differ from skeletal and cardiac muscles in that they \_\_\_\_\_

lack

myofibrils

28. (1.00 pts) Cardiac muscles lack myosin.

- True  False

29. (1.00 pts) The correct order for the smallest to the largest unit of organization in muscle tissue is \_\_\_\_\_

- A) fascicle, filament, muscle fiber, myofibril  
 B) filament, myofibril, muscle fiber, fascicle  
 C) muscle fiber, fascicle, filament, myofibril

30. (1.00 pts) Cardiac muscle cells are anucleated

- True  False

31. (1.00 pts) Have one or two nuclei

- A) Cardiac muscles  
 B) Skeletal muscles  
 C) Both of the above

32. (1.00 pts) What type of vertebrae are shown in photo B?



A.



B.



C.

Expected Answer: Lumbar vertebrae

33. (1.00 pts) What type of vertebrae are shown in photo C?



A.



B.



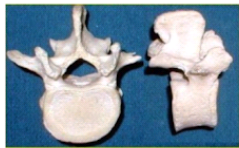
C.

Expected Answer: Thoracic vertebrae

34. (1.00 pts) How many of B types are there in the skeleton?(write it in words)



A.



B.



C.

Expected Answer: Five

35. (1.00 pts) What type of vertebrae are shown in photo A?



A.



B.



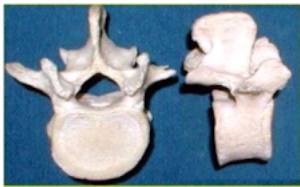
C.

Expected Answer: Cervical vertebrae

36. (1.00 pts) What is the name of the first vertebrae in photo A ?



A.



B.



C.

Image A (from left to right): axis, atlas, cervical bones

Expected Answer: Atlas

37. (1.00 pts) What are Synovial joints ?

Expected Answer: are joints where the bones articulate with each other within a fluid-filled joint cavity

38. (1.00 pts) Synovial joints may be functionally classified as a amphiarthrosis

- True  False

39. (1.00 pts) Joints where the bones articulate with each other within a fluid-filled joint cavity is called a fibrous joint

- True  False

40. (1.00 pts) Small bone located at inferior end of the adult vertebral column that is formed by the fusion of four coccygeal vertebrae; also referred to as the "tailbone"

- A) Atlas  
 B) Coccyx  
 C) Sacrum  
 D) Vertebra

41. (1.00 pts) For adults, there are 206 bones in the skeleton

- True  False

42. (1.00 pts) Younger individuals have lower number of bone than adults .

- True  False

43. (1.00 pts) The vertebrae that have to bear the least amount of body weight and thus have have the smallest body is \_\_\_\_\_

Cervical

44. (1.00 pts) The vertebrae characterized by the long and spinous process extending downward

- A) Lumbar  
 B) Thoracic  
 C) Cervical  
 D) Sacral

45. (1.00 pts)

Osteocytes have long cytoplasmic processes and can communicate with each other and receive nutrients via these long cytoplasmic processes that extend through channels called

- A) Lacuna  
 B) Canaliculi



- C) Hole
- D) None of the above

46. (1.00 pts) Cell responsible for resorbing bone are \_\_\_\_\_

- A) Osteoclast
- B) Osteocyte
- C) Osteogenic cell

47. (1.00 pts) Long bones enable body movement by acting as a lever .

- True
- False

48. (1.00 pts) Which of the following occurs in the spongy bone of the epiphysis

- A) Shock absorption
- B) Bone remodelling
- C) Hematopoiesis
- D) None of the above

49. (1.00 pts) Without red marrow, bones would not be able to store calcium

- True
- False

50. (1.00 pts) Red marrow helps bones to \_\_\_\_\_ .

make

blood

cells

51. (1.00 pts) Osteoblasts and osteocytes are incapable of undergoing mitosis

- True
- False

52. (1.00 pts) Which function of the skeletal system would be especially important if you were in a car accident

- A) protection of internal organs
- B) storage of mineral
- C) Fat storage
- D) None of the above