Anatomy and Physiology 2020 SSSS Test

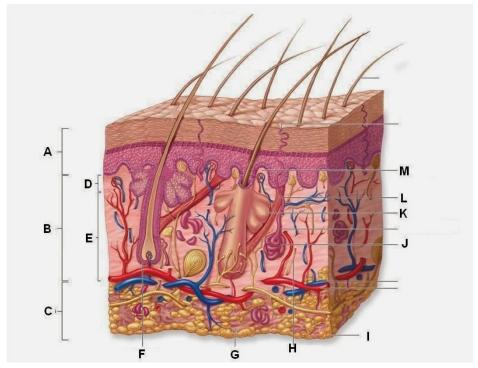
Division C - Integumentary, Muscular, and Skeletal

1.	Which	of the following is NOT a layer of the skin?
	a.	Stratum Corneum
	b.	Stratum Basale
	C.	Stratum Sinusoidal
	d.	Stratum Spinosum
2.	List T	WO functions of the integumentary system
3.	The p	rotein that helps protect the skin and underlying tissue is
	a.	Melanin
	b.	Keratin
	c.	Actin
	d.	Creatinine
4.	A burr	that involves the entire epidermis and some of the dermis is degree
	a.	first
	b.	second
	C.	third

- d. fourth
- 5. Sweat is a substance produced by _____ glands
 - a. Ceruminous glands
 - b. Sebaceous
 - c. Holocrine glands
 - d. Sudoriferous glands

Label the following diagram:

6.



- a.
- b.
- C.
- d.
- e.

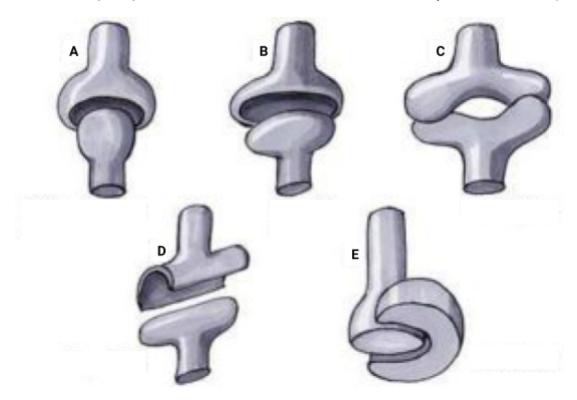
f.			
g.			
h.			
i.			
j.			
k.			
I.			
m.			
7. Females have a thicker hypodermis than males			
a. True			
b. False			
8. The likelihood of skin cancer increases due to an in melanocytes			
a. increase			
b. decrease			
9. What disease do people with a decrease in melanin poses?			
10. Which epidermal layer include stem cells that continually undergo cell division?			
11. Carotene is a precursor of which vitamin?			
12. Dendrites of neurons surrounding each hair follicle are called what?			

13. Vasodilation in the dermis of the skin (Circle one: increases/decreases) the				
amou	nt of heat loss in the body.			
14. Which of the following hormones is associated with Vitamin D?				
a.	Apocrine			
b.	Calcitriol			
c.	Peptide			
d.	Calcitrone			
15. What gland is absent in thick skin?				
16. The tv	vo main types of glands are and glands			
17. Which of the following secures the nail to the fingertip?				
a.	Hyponychium			
b.	Eponychium			
c.	Phalanx			
d.	Lunula			
18. Which of the following cells produce the most pigment molecules?				
a.	Epidermal dendritic cells			
b.	Melanocytes			
C.	Keratinocytes			
d.	Stratified cuboidal epithelial cells			
19. Most epidermal cells are:				

- a. Epidermal dendritic cells
- b. Keratinocytes
- c. Squamocytes
- d. Erythrocytes
- 20. Would you expect an epidermal wound to bleed? Why or why not?

21. How are wrinkles produced? Explain the process in detail.

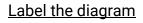
Use the following diagram for #22-#26 to match the letter of the joint to its description



22. The elbow joint is an example of this				
23. The joint of the wrist that allows the palm of the hand to be turned up and down is an example of this				
24. Shoulder and hip joints are an example of this				
25. Also called a condyloid joint. The wrist is an example of this.				
26. The thumb joint is an example of this				
27. Yellow bone marrow consists mainly of cells, which stores triglycerides.				
28. The long, cylindrical, main portion of the bone is called the				
a. epiphyses				
b. periosteum				
c. metaphyses				
d. diaphysis				
29. What is the most abundant mineral salt in the extracellular matrix?				
a. calcium oxalate				
b. sulfate				
c. calcium phosphate				
d. calcium carbonate				
30. Spongy bone tissue is the strongest bone tissue in the human body				
a. True				
b. False				

32. Which of the following options correctly depicts the layers of a bone in order?

- a. epimysium, endomysium, perimysium
- b. perimysium, epimysium, endomysium
- c. endomysium, perimysium, epimysium
- d. perimysium, endomysium, epimysium
- 33. The areas between neighboring osteons are called interstitial lamellae



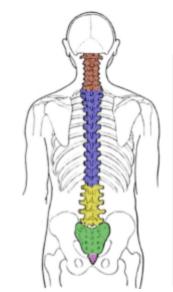
34.

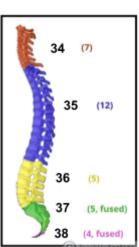
35.

36.

37.

38.



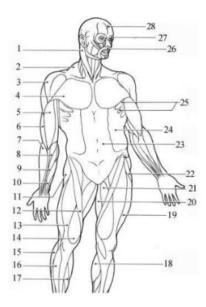


39. Why is bone reabsorption important?

40. What structures pass through the hypoglossal canal?

It transmits the hypoglossal nerve from its point of entry near the medulla oblongata to its exit from the base of the skull near the jugular foramen.

- 41. Using the Salter-Harris fracture system, order the following statements from type I to type V
 - I. fracture through the metaphysis and physis (most common; up to 75% of all physeal fractures)
 - II. fracture through the metaphysis, physis and epiphysis
 - III. fracture through the physeal plate (often not detected radiographically)
 - IV. crush injury involving part or all of the physis
 - V. fracture through the epiphysis and physis
 - a. I, II, III, IV, V
 - b. II, IV, I, V, III
 - c. III, I, V, II, IV
 - d. IV, II, III, V, I
- 42. Give the name of #4 _____
- 43. Give the name of #24 _____
- 44. Give the name of #12 _____
- 45. Give the name of #1 ______



46. This description depicts which of the following disorders?			
viral infection of the nerves that control skeletal muscle movement			
a. tetanus			
b. muscular dystrophy			
c. Myasthenia gravis			
d. Poliomyelitis			
47. What's the difference between a muscle strain and muscle sprain?			
48. Which of the following carries only motor output information?			
a. Cervical Spinal nerves			
b. Dorsal root			
c. Spinal cord			
d. Ventral root			
49. Joints that allow the most movement (Synovial)?			
a. Amphiarthrosis			
b. Diarthrosis			
c. Synarthrosis			
d. Sarithrosis			

50. Joints that are present between the ribs and the sternum (Cartilaginous)?			
a. Am	nphiarthrosis		
b. Dia	arthrosis		
c. Syr	narthrosis		
d. Sar	rithrosis		
51. Joints that are present between the cranial bones (Sutures)?			
a. Am	nphiarthrosis		
b. Dia	arthrosis		
c. Syr	narthrosis		
d. Sar	rithrosis		
52. The muscle tissue type that consists of a single, very long, cylindrical, multinucleated cells with very obvious striations is:			
a. car	rdiac muscle only		
b. ske	eletal muscle only		
c. car	rdiac and smooth muscle		
d. car	rdiac and skeletal muscle		
53. What is the name of the neurons that stimulate skeletal muscle fibers to contract?			
54. How does sarcomere length influence the maximum tension that is possible during muscle contractions?			

55. How is the motor end plate different from other parts of the sarcolemma? 56. What factors contribute to muscle fatigue? 57. Name this skin disorder: 58. Describe its treatment:

Match the name of the disorder with its description

- 59. Loss or absence of hair, especially on the scalp; a result of heredity, aging process, systemic illness, or dermatitis; aka baldness.
- a. impetigo
- 60. An inflammatory disease of the sebaceous glands and hair follicles.
- b. acne vulgaris
- 61. Common benign skin growths found mainly on the axilla (armpit), neck, and inguinal areas of the body; aka skin tag.
- c. alopecia
- 62. A common, contagious, superficial skin infection; manifests with early vesicular or pustular lesions that rupture and form thick yellow crusts.
- d. acrochordon

- 63. Localized redness and swelling caused by an irritant or allergen.
- e. contact dermatitis
- 64. The normal loss of bone that occurs with aging is called
 - a. osteoporosis
 - b. osteopenia
 - c. osteogenesis
 - d. osteo inflammation
- 65. An autoimmune disease where the immune system attacks its own joints often leading to deformities is called
 - a. Osteoporosis

- b. Ricketsc. Gout
- d. Rheumatoid Arthritis

66. Exaggerated thoracic curvature of the spine is called

- a. Lordosis
- b. Kyphosis
- c. Scoliosis
- d. Lumbardosis
- 67. Identify the disorder given the following description:

Chronic and progressive inflammatory disease of the spine. It is characterized by early sacroiliac joint involvement followed by hardening of the annulus fibrosus and surrounding connective tissue along with arthritic changes in the facet joints. The disease may cause the spine to gradually lose flexibility and stiffen. The disease is hereditary.

- a. Rheumatoid spondylitis
- b. Myasthenia gravis
- c. Osteoarthritis
- d. muscular dystrophies