DO NOT MARK OR WRITE ON THIS QUIZ!!

There are 25 questions, each worth 3 points and a short essay worth 25 points.

DO YOUR OWN WORK!! Use Your Time Wisely

1.	. The Integumentary System is divided into how many layers?			
	a) 2	b) 3	c) 4	d) 6
2.	What are the two m	ajor groups of membranes c	overing the human bo	ody?
	a) Epithelial & Mucus	b) Cutaneous & Mucus c) E _l	pithelial & Connective T	issue d) None of these
3.	Which internal men	nbrane provides protection fo	r your joints?	
	a) Serous	b) Synovial	c) Cutaneous	d) Mucus
4.	These membranes li	ine internal cavities exposed t	to air & excrete a goo	bey substance.
	a) Serous	b) Synovial	c) Cutaneous	d) Mucus
5.	The Integumentary	System protects the human b	ody from	
	a) Friction	b) Hot & Cold Temperature	c) Bacteria	d) All of These
6.	Which stratum of th	ne epidermis is full of keratin,	cornified to prevent	water loss?
	a) Basale	b) Granulosum	c) Corneum	d) None of These
7. Which body system extends into the dermis to provide information to your brain?				your brain?
	a) Cardiovascular	b) Immune	c) Integumentary	d) Nervous
8.	Subcutaneous tissue	e includes adipose tissue or fa	t. It is also known as	s the
	a) Dermis	b) Papillary Layer	c) Hypodermis	d) Reticular Layer
9.	The dermis is divide	ed into two layers. Which of	these is the thickest?	
	a) Papillary	b) Reticular	c) Basale	d) Hypodermis
10	.Which stratum of th	ne epidermis is responsible for	r new cell production	?
	a) Corneum	b) Basale	c) Granulosum	d) Spinosum

11	. Which stratum of the epidermis receives the most nutrients from the dermal blood vessels?				
	a) Corneum	b) Basale	c) Granulosum	d) Spinosum	
12	2. What happens to epithelial cells as they migrate to the surface layer of your skin?				
	a) Death	b) Cornification	c) Stratification	d) Both (a) & (b)	
13	. Keratinocytes are f	ull of these fibrous macromo	lecules to make them	tough/strong.	
	a) Proteins	b) Phospholipids	c) DNA	d) Nucleic Acids	
14	. Meissner's Corpus	cles are located in the dermal	papillae and are resp	onsible for sensing	
	a) Pain	b) Pressure	d) Bacteria	d) Temperature	
15	. Melamin, a pigmen	at colored yellow to brown to	black, is produced in	these spider-like cells.	
	a) Adipose	b) Hemoglobin	c) Melanocytes	d) Melanoblasts	
16	. The dermis is divid	ed into two layers. Which of	f these is closest to the	e hypodermis?	
	a) Subcutaneous	b) Epidermis	c) Papillary	d) Reticular	
17. Genetically determined patterns found on hands & feet are formed by arrangement of					
	a) Papillae	b) Basale Cells	c) Melanocytes	d) Carotene	
18	. Most skin structure	s and appendages are found i	n this layer.		
	a) Epidermis	b) Hypodermis	c) Reticular	d) Papillary	
19	19. Most cells in the epidermis are dead, flat, full of protein fibers and located in this stratum.				
	a) Corneum	b) Lucidum	c) Granulosum	d) Spinosum	
20	20. Pressure receptors, located deep in the dermis, are called				
	a) Pressure Papili	b) Pacinian Corpuscles	c) Arrector pili	d) Meissner's pili	
21	21. Which of these pigments is also responsible for carrying oxygen in your blood?				
	a) Hemoglobin	b) Carotene	c) Melonin	d) Red dve #4	

22	. Appendages of the skin include all of the following except					
	a) Nails	b) Hair follicles	c) Sweat glands	d) Dermal papillae		
23	. These are responsi	ble for making your hair stand	d on end when they a	re contracted.		
	a) Nails	b) Arrector pili muscles	c) Erector muscles	d) Hair follicles		
24	. Homeostatic imbal	ances of the skin include all of	of these except			
	a) Psoriasis	b) Carbuncles	c) Lunula	d) Impetigo		
25	. Homeostatic skin r	may be described as being				
	a) In balance	b) Stable	c) In equilibrium	d) All of these		
26	. Part 2: Short Essay	y				
	In what ways does the Integumentary System protect your body throughout the day and your lifetime.					
	[Write your name &	k period on top line below, us	se back of paper if you	u need more space.]		
N.	NAME: PERIOD:					

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TEST 1.0

Matching - Choose the best descriptor from Column B to match the question in Column A.

Column A

Column B

11. Melanoma

12. Boils

13. Eczema

14. Erysipelas

15. Acne

A. Sebaceous gland infection

B. Streptococcus pyogenes

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C. Too much sun

D. Environmental stresses

E. Staphylococcus aureus

Column A	Column B
16. 2 nd Degree Burn	A. Follicle infection
17. 3 rd Degree Burn	B. Epidermis/Dermis interface
18. Furuncle	C. Epidermis only
19. Dermal Pappillae	D. Beyond Epidermis and dermis
20. 1 st Degree Burn	E. Dermis only
Column A	Column B
21. Stratum Germinativum	A. Epidermis
22. Stratum corneum	B. Dermis
23. Sweat gland	
24. Papillae	
25. Stratum Granulosum	
26. Melanocytes	A. Sweat glands
27. Keritinized cells	B. Epidermal leakage
28. Sensible perspiration	C. Thick soles
29. Insensible perspiration	D. Pigmented protection
30. Stratum lucidum	E. Waxy protection
31. Medulla	A. "Goose bumps"
32. Vellus hair	B. Hair shaft
33. Cuticle of hair	C. "Baby hair"
34. Sebaceous gland	D. Hair root
35. Erector pili	
36. Basal Cell	A. Metastasizes
37. Melanoma	B. T2 Diabetes
38. Bed Sores	C. Sebaceous Oil
39. Acne	D. Slow Growing
40. Psoriasis	E. Stage 4- Gangrene
41. 1 Degree Burns	AB. Vitamin E
42. Keloid	A. Bacteria
43. Baldness	B. Stress
44. Eczema	C. Black/Yellow
45. Acne	D. Blisters
46. 2 Degree Burns	E. Testosterone
47. 3 Degree Burns	AB. Scar Tissue
48. DSMO	A. Staphylococcus
49. Erysipelas	B. Streptococcus
50. Squamous Cell	C. Skin Absorption
51. Furuncles	D. UV Damage

True/False Questions. Note: A = True, B = False

- 52. Insensible perspiration comes out of sweat glands.
- 53. Arrector pili muscles are associated with each sweat gland.
- 54. Joe just burned himself on a hot pot. A blister forms and the burn is painful. Joe=s burn would best be described as a second degree burn.
- 55. A fingernail is actually a modification of the skin.
- 56. The skin is not able to receive stimuli because the cells of the epidermis are not living cells and because there are no sensory receptors the skin.
- 57. Destruction of the matrix of the hair bulb would result in its inability to produce oil.
- 58. The protein found in large amounts in the outermost layer of the epidermal cells is lignin.

Mr.	Holder
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Part 2 - Problems

Name _		
Period		

Section 2. Problem and Graph

- 1. Listed below is modified from Lab 6: Sweat Gland Density. Your tasks are:
 - A. Calculate the mean density for the surface areas listed. Write your answers in the space provided.
 - B. Graph the mean data vs body surface on the bar graph provided.
 - C. Write your conclusions based on your graph and analysis.

Table 1. Raw Data

Lab 6	Sweat Gland Data -	Densities	(#/cm2)	
Initials	Surface			
	Palm	Upper leg	Upper arm	Arm pit
WW	165.0	47.3	49.4	192.0
XY	213.0	35.0	44.0	273.5
ZZ	<u>198.0</u>	<u>33.0</u>	<u>63.0</u>	<u>382.0</u>
Sum				
A) Mea n				

! ! ! ! ! ! Mr. Holder ARC C) Conclusions:

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31. Medulla

C. Keratin

D. Spike in body temp.

ARC

Integumentary System Review Sheet

- 1. The two primary pigments contained in the epidermis are
- 2. Arrector pili muscles are associated with each sweat gland
- 3. Acne is a disorder associated with:
- 4. The dermis: Is avascular, Lacks sensory nerves, Has melanocytes, Is vascular
- 5. Where is the hypodermis located
- 6. What is the ascending order of the epidermal layers?
- 7. Select the most correct statement concerning skin cancer.
 - A. Most tumors that arise on the skin are malignent.
 - B. Squamous cell carcinomas arise from the stratum corneum
 - C. Basal cell carcinomas are the least common but most malignant.
 - D. Most moles will eventually become malignant.
 - E. Melanomas are rare but must be removed quickly.
- 8. What is the protein found in the epidermis that waterproofs and toughens skin?
- 9. The most abundant cells of the epidermis

A. Keratinocytes B. Vitamin D

10. Must be activated in the skin in order to enhance calcium metabolism:

Matching	1 7 1
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14. Erysipelas	D. Environmental stresses
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26. Melanocytes	A. Sweat glands
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28. Sensible perspiration	C. Thick soles
29. Insensible perspiration	D. Pigmented protection
30. Stratum lucidum	E. Waxy protection

A. AGoose bumps@

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32. Vellus hair	B. Hair shaft	
33. Cuticle of hair	C. ABaby hair@	
34. Sebaceous gland	D. Hair root	
35. Erector pili		