

Anatomy Worksheet Unit 2

Student Name: _____

Bone Tissue, Integument, Muscle Tissue, Muscles, Digestive System, Respiratory System, Nervous Tissue

Integument

1. The integument includes the skin, hair, nails and _____
2. Higher than normal levels of bilirubin in the blood are responsible for
 - a. Vitiligo b. erythema c. albinism d. jaundice e. freckles
3. True/False Skin excretes ammonia.
4. Layer of skin that contains lipid-rich granules.
 - a. Stratum spinosum
 - b. Stratum granulosum
 - c. Dermis
 - d. Stratum basale
 - e. Stratum corneum
5. Programmed cell death
 - a. Necrosis b. keratohyalin c. apoptosis d. hypertrophy e. mitosis
6. Thin skin has a higher density of _____ glands and a lower density of _____ glands than thick skin.
7. Approximate amount of water lost per day by evaporation (not insensible or sensible perspiration) is about
 - a. 200 ml b. 400 ml c. 1 liter d. 2 liters e. 3 liters
8. True/False In order for cooling of the body to take place, blood vessels in the dermis constrict limiting the flow of blood in this layer.
9. Layer of epidermis not found in thin skin _____
10. True/False The density of melanocytes is about the same in the skin all human populations.
11. True/False The density of melanocytes in human skin decreases with age.
12. True/False Keratinocytes produce melanin in organelles called melanosomes.
13. Cells that are part of the immune system and that migrate to skin from the blood are _____
14. What are arrector pili? _____
15. List three structures responsible for sense of touch or pressure found in the skin: _____
16. Layer of epidermis with most active cell division: stratum ____
 - a. corneum b. lucidum c. granulosum d. spinosum e. basale
17. Time it takes for a keratinocyte to migrate from the stratum basale to the outermost layer of the epidermis is about _____
18. In this migration the keratinocyte loses its _____ and acquires _____ (a protein).
19. What is the importance of the lipid-rich granules found in the epidermis? _____
20. Melanin provide protection from _____ by forming a protective barrier around the _____ of the cell.
21. The most common of the cell types in the epidermis is the _____.
22. Blood vessels in the dermis carry _____% of the total blood flow of a resting adult.