

Name: _____

Period: _____

Unit 3: Cells, Histology, and Integumentary

Test Review

1. Describe the four principle parts of a generalized animal cell and their functions.
 - a. Nucleus:
 - b. cytosol/cytoplasm:
 - c. organelles:
 - d. cell membrane:
2. Describe the structure and function of the cell membrane.
3. Define the term selective permeability.
4. Describe each of the following transport processes and classify them as active or passive.
 - a. diffusion:
 - b. facilitated diffusion:
 - c. dialysis:
 - d. filtration:
 - e. phagocytosis:
 - f. exocytosis:
5. Define and describe the major functions of the following structures within the cell and nucleus.
 - a. nucleoli:
 - b. gene:
 - c. chromatin:
 - d. chromosome:

6. Identify the major functions and characteristics of the following organelles or cell membrane modifications.
 - a. endoplasmic reticulum:
 - b. golgi complex/apparatus:
 - c. mitochondria:
 - d. lysosomes:
 - e. peroxisomes:
 - f. microfilaments:
 - g. microtubules:
 - h. centrioles:
 - i. centrosomes:
 - j. flagella:
 - k. cilia:
 - l. microvilli:
 - m. vacuole:
7. Relate the following to cell division.
 - a. mitosis:
 - b. meiosis:
 - c. cytokinesis:
8. Identify the general functions of each of the principle types of tissues.
 - a.
 - b.
 - c.
 - d.

9. Compare and contrast exocrine and endocrine glands.

10. Differentiate among the following types of membranes.
 - a. mucous:

 - b. serous:

 - c. synovial:

 - d. cutaneous:

11. Describe the general functions of the following structures associated with the integumentary system:
 - a. skin

 - b. glands

 - c. hair

 - d. nails

12. List and describe the three basic layers of the skin.
 - a.

 - b.

 - c.

13. Describe the functions of sudoriferous (sweat) and sebaceous (oil) glands.

14. Describe the following diseases/disorders of the skin:
 - a. Acne:

 - b. Skin Cancer

 - c. Decubitus Ulcers: