

FUNCTION OF THE ORGANELLES

Name _____

Which organelle performs each of the following functions within the cell?

Function

Organelle

- | | |
|---|--------------------------------------|
| 1. Controls the movement into and out of the cell | 1. <u>cell membrane</u> |
| 2. Watery material which contains many of the materials involved in cell metabolism | 2. <u>cytoplasm</u> |
| 3. Serves as a pathway for the transport of materials throughout the cell; also associated with synthesis and storage | 3. <u>ER</u> |
| 4. Serves as the control center for cell metabolism and reproduction | 4. <u>nucleus</u> |
| 5. Sites of protein synthesis | 5. <u>ribosomes</u> |
| 6. Involved in the digestion of food within the cell | 6. <u>lysosome</u> |
| 7. The "powerhouse" of the cell | 7. <u>mitochondria</u> |
| 8. Packages and secretes the products of the cell | 8. <u>golgi body</u> |
| 9. Involved in cell division in animal cells | 9. <u>centriole</u> |
| 10. Fluid filled organelles enclosed by a membrane; contains stored food or wastes | 10. <u>vacuole</u> |
| 11. Site of the production of ribosomes | 11. <u>nucleolus</u> |
| 12. Controls movement into and out of the nucleus | 12. <u>nuclear envelope/membrane</u> |
| 13. Gives the cell its shape and provides protection; not found in animal cells | 13. <u>cell wall</u> |
| 14. Hairlike structures with the capacity for movement | 14. <u>cilia</u> |
| 15. A long, hairlike structure used for movement | 15. <u>flagellum</u> |
| 16. Site of photosynthesis | 16. <u>chloroplast</u> |
| 17. During cytokinesis, the new cell wall that begins to form in the middle, dividing the two sides | 17. <u>cell plate</u> |
| 18. Rod-shaped bodies that carry genetic information | 18. <u>chromosome</u> |

PARTS OF THE CELL—MATCHING

Name _____

Match the descriptions in Column I with the name in Column II.

Column I

Column II

- a 1. holds nucleus together
- f 2. ^{transport} surface for chemical activity
- p ~~3.~~ units of heredity
- o 4. digestion center
- e 5. where proteins are made
- h 6. structures involved in mitosis in ^{cell division} animal cells only
- t 7. microscopic cylinders that support and give the cell shape
- m 8. shapes and supports a plant cell
- a 9. stores and ^{packages} releases chemicals
- k 10. food for plant cells is made here
- r 11. spherical body within nucleus
- l 12. controls entry into and out of cell
- j 13. traps light and is used to produce food for plants
- b 14. chromosomes are found here
- i 15. jellylike substance within cell
- c 16. contains code which guides all cell activities
- g 17. minute hole in nuclear membrane
- n 18. "powerhouse" of cell
- d 19. contains water and dissolved minerals
- s ~~20.~~ stores food or contains pigment

- a. Golgi bodies
- b. nucleus
- c. chromosomes
- d. vacuole
- e. ribosomes
- f. endoplasmic reticulum
- g. nuclear membrane
- h. centrioles
- i. cytoplasm
- j. chlorophyll
- k. chloroplasts
- l. cell (plasma) membrane
- m. cell wall
- n. mitochondria
- o. lysosome
- ~~p.~~ genes
- q. nuclear pore
- r. nucleolus
- ~~s.~~ plastid
- t. microtubule