

Cell Biology

Name:

Cell Structures Practice Questions

Period:

Answer the questions below using your brain. Then, check your answers using Chapter 4.

- _____ 1. According to the cell theory, what makes up all living things?
a. only one cell b. one or more cells c. more than one cell d. a system of cells
- _____ 2. Where is DNA stored in a eukaryotic cell?
a. in the cytoplasm b. in the nucleus c. in the ribosome d. in the lysosome
- _____ 3. Where do cells come from?
a. food b. the air c. other cells d. ribosomes
- _____ 4. What limits the size of a cell?
a. how hard the cell is c. how much the cell eats
b. the cell's surface area-to-volume ratio d. the cell's volume-to-surface area ratio
- _____ 5. What protects the inside of a cell from the outside world?
a. cytoplasm b. nucleus c. cell membrane d. endoplasmic reticulum

Match the correct description with the correct term. Write the letter in the space provided.

- _____ 6. the type of cell that has a nucleus a. unicellular
- _____ 7. an organism made up of many cells b. eukaryotic
- _____ 8. a one-celled organism, which may or may not have a nucleus c. multicellular
- _____ 9. the type of cell without a nucleus d. prokaryotic

Match the correct description with the correct term. Write the letter in the space provided.

- _____ 10. a stiff structure around a plant cell membrane; supports the cell a. large central vacuole
- _____ 11. an organelle in plants and algae where photosynthesis happens b. chlorophyll
- _____ 12. an organelle where water is stored; sometimes acts like a lysosome c. chloroplast
- _____ 13. a green pigment that traps the sun's energy d. cell wall

Match the correct description with the correct term. Write the letter in the space provided.

- _____ 14. a thin layer that protects a cell from the things around it a. ribosome
- _____ 15. the organelle where a cell releases energy from sugar b. lysosome
- _____ 16. organelle that digests food, waste, cell parts, and foreign invaders c. mitochondrion
- _____ 17. organelle where amino acids make proteins d. cell membrane

turn over for more questions

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Match the correct description with the correct term. Write the letter in the space provided.

- | | |
|---|-----------------|
| _____ 18. a group of organs that work together | a. organ |
| _____ 19. a group of cells that work together | b. cell |
| _____ 20. the smallest piece of a living organism | c. organ system |
| _____ 21. two or more tissues that work together | d. tissue |

Use the terms from the following list to complete the sentences below.

differentiate structure organism function

22. The special job a cell does is its _____ .
23. Anything that can perform life processes by itself is an _____ .
24. The way the parts of an organism are arranged is its _____ .
25. Cells of multicellular organisms do different things because they _____ .