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| | | |

Directed Reading B continued

15. Endoplasmic reticulum (ER) that is covered with ribosomes is called

16. Endoplasmic reticulum (ER) that makes lipids and breaks down toxic

materials but lacks ribosomes is called ______.

MITOCHONDRIA

17. In a eukaryotic cell, the organelle in which sugar is broken down to release energy is the

- **a.** ribosome.
- **b.** lysosome.
- **c.** endoplasmic reticulum.
- **d.** mitochondrion.

18. Cells do work using energy released by mitochondria and stored in

| a. ATF. | c. ATP. |
|----------------|----------------|
| b. ALT. | d. DNA. |

CHLOROPLASTS

19. The organelles in plant and algae cells where photosynthesis takes place are called

| a. ribosomes. | c. mitochondria. |
|-------------------------|-------------------------|
| b. chloroplasts. | d. chlorophyll. |

20. The process by which cells, such as plant cells, use sunlight, carbon dioxide, and water to make sugar and oxygen is called

- **a.** respiration.
- **b.** oxidation.
- **c.** photosynthesis.
- **d.** parthenogenesis.

21. Chloroplasts are green because they contain

- a. sugar. c. chlorophyll.
- **b.** proteins. **d.** DNA.

GOLGI COMPLEX

22. What organelle packages and distributes proteins where they are needed?

- **a.** the endoplasmic reticulum
- **b.** the mitochondrion
- **c.** the central vacuole
- **d.** the Golgi complex

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CELL COMPARTMENTS

23. The bubble that forms where a piece of the Golgi complex's membrane

pinches off is called a(n) _____

24. What carries new protein from the ER to the Golgi complex and distributes material from the Golgi complex to other parts of the cell?

LYSOSOMES

25. What is a lysosome?

26. In what kind of cells are lysosomes mainly found?

27. What are three functions of lysosomes?

VACUOLES 28. Organelles in plant and animal cells that store digestive enzymes and aid in digestion within the cell are called a. vesicles. b. lysosomes. c. vacuoles. d. ribosomes. 29. In plant cells, the organelle where water and other materials are stored and that helps support the cell is the

- **a.** endoplasmic reticulum.
- **b.** nucleolus.
- **c.** large central vesicle.
- **d.** large central vacuole.