

Directed Reading B *continued*

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

rough endoplasmic reticulum.

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

materials but lacks ribosomes is called smooth endoplasmic reticulum.

MITOCHONDRIA = the powerhouse of the cell

mitochondrion

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.

ATP

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

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

CHLOROPLASTS

chloroplasts

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

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

photosynthesis

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

photo = light
synthesis =
to make

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

chlorophyll

21. Chloroplasts are green because they contain

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

GOLGI COMPLEX

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

Directed Reading B *continued*

CELL COMPARTMENTS

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

pinches off is called a(n) **vesicle**.

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?

vesicles - are little sacs that transport materials inside the cytoplasm

LYSOSOMES

25. What is a lysosome?

A lysosome is a specialized vesicle that contains digestive enzymes it can digest and destroy unwanted organelles, lyso = break apart soma = body

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

cells of the intestines to break apart incoming food particles

27. What are three functions of lysosomes?

- 1.** to help digest food,
- 2.** to destroy and recycle parts of organelles
- 3.** they are the self destruct buttons for when the cell gets cancer and needs to be destroyed from the inside.

VACUOLES

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.

large central vacuole

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.