

Completion

Complete each statement using a vocabulary word or words.

- 1) The energy in the food chain originally comes from the process of _____, which supplies the organisms with the energy they need.
- 2) Small openings called _____ allow carbon dioxide to enter a leaf.
- 3) Chloroplasts contain a pigment called _____ that captures the energy in light.
- 4) Energy from glucose is released in the process of _____.
- 5) A cell's nucleus decides to form two identical nuclei during the stage of the cell cycle known as _____.
- 6) The final stage of the cell cycle, during which the cytoplasm divides, is called _____.
- 7) _____ is the process by which a cell makes an exact copy of its DNA.
- 8) The process by which cells change in structure to become capable of carrying out specialized functions is known as cell _____.
- 9) A human _____ can differentiate into specialized cells throughout a person's life.
- 10) Differences in cell _____ produce differences in cell _____, making multicellular organisms to have cells that produce specialized cells or jobs.

Multiple Choice

Circle the letter of the choice that best completes the statement or answers the question. There is only one answer for each question.

11) What happens during photosynthesis?

- A. The cell uses oxygen to make food.
- B. The cell uses the energy in sunlight to make food.
- C. The cell uses glucose to make oxygen.
- D. The cell uses the energy in sunlight to make carbon dioxide.



12) How does photosynthesis benefit heterotrophs?

- A. It adds carbon dioxide to the air.
- B. It creates food that they can eat.
- C. It eliminates harmful oxygen.
- D. It creates clean water.

13) What are the products of photosynthesis?

- A. carbon dioxide and water
- B. oxygen and water
- C. carbon dioxide and oxygen
- D. oxygen and sugar



14) What captures energy from sunlight during photosynthesis?

- A. water cells
- B. vitamins
- C. chlorophyll and other pigments
- D. Carbohydrates

15) What happens during cellular respiration?

- A. Oxygen is released into the air.
- B. Glucose is broken down, releasing energy.
- C. Carbohydrates are released into the bloodstream.
- D. Water and carbon dioxide are converted into energy.

16) The stage of respiration that releases most of the energy in glucose occurs in the

- A. nucleus
- B. chloroplast
- C. cytoplasm
- D. mitochondria

17) How are equations (processes) for photosynthesis and respiration related?

- A. They have opposite equations.
- B. They have the same equation.
- C. They both produce carbon dioxide.
- D. They both produce oxygen.

18) The energy-releasing process that does not require oxygen is called

- A. photosynthesis
- B. respiration
- C. fertilization
- D. fermentation

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SA Dillow



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