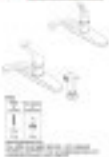


KNOWLEDGE



QUESTION

1. What is the function of the nucleus?

2. How do chloroplasts produce food for the cell?

3. What is the role of mitochondria in a cell?

4. Describe the structure and function of the endoplasmic reticulum.

5. How does the Golgi apparatus transport materials within the cell?

6. What is the function of lysosomes?

7. How does a vacuole contribute to the cell's homeostasis?

8. What is the function of the cell wall in plant cells?

9. How does the cell membrane regulate the movement of substances in and out of the cell?

10. What is the role of centrioles in cell division?

ANSWER

1. The nucleus contains genetic material (DNA) and controls cell activities.

2. Chloroplasts perform photosynthesis to produce food for the cell.

3. Mitochondria produce energy for the cell through cellular respiration.

4. The endoplasmic reticulum synthesizes and transports proteins and lipids.

5. The Golgi apparatus packages and distributes proteins and lipids.

6. Lysosomes break down waste materials and cellular debris.

7. A vacuole stores water, nutrients, and waste products, contributing to the cell's homeostasis.

8. The cell wall in plant cells provides structural support and protection.

9. The cell membrane regulates the movement of substances in and out of the cell.

10. Centrioles are involved in cell division.