

Science Reviewer: Digestive, Plant, Genetics, and Atomic Systems

Science · Answer Key · 10 Questions

1. Which organ produces bile to help break down fats?

- A) Pancreas
- B) Liver**
- C) Stomach
- D) Gallbladder

2. What is the primary function of the xylem in plants?

- A) Carries water and minerals upward**
- B) Carries sugars to all parts
- C) Controls gas exchange
- D) Stores energy

3. Where does photosynthesis primarily take place in a plant cell?

- A) Mitochondria
- B) Nucleus
- C) Chloroplast**
- D) Ribosome

4. What is the chemical equation product of cellular respiration?

- A) Glucose + Oxygen
- B) Sunlight + Water
- C) Carbon dioxide + Water + Energy**
- D) Starch

5. If a parent with genotype Dd crosses with Dd, what is the probability of a child having no dimples (dd)?

- A) 0%
- B) 25%**
- C) 50%
- D) 75%

6. Which kingdom is characterized by organisms that are multicellular, ingestive heterotrophs?

- A) Plantae
- B) Fungi
- C) Protista
- D) Animalia**

7. Which scientist discovered the electron using cathode rays?

- A) John Dalton
- B) J.J. Thomson**
- C) Niels Bohr
- D) Ernest Rutherford

8. What particles are located in the nucleus of an atom?

- A) Protons and Electrons
- B) Electrons and Neutrons
- C) Protons and Neutrons**
- D) Only Protons

9. What do we call atoms of the same element with different neutron counts?

- A) Ions
- B) Isotopes**
- C) Molecules
- D) Compounds

10. In a neutral atom, the number of electrons is equal to the number of:

- A) Neutrons
- B) Protons**
- C) Atomic mass
- D) Shells