

Biology Essentials for Teens

Biology · Answer Key · 15 Questions

1. Which organelle is known as the powerhouse of the cell?

- A) Nucleus
- B) Mitochondria**
- C) Ribosome
- D) Golgi apparatus

2. What is the basic unit of life in all living organisms?

- A) Tissue
- B) Organ
- C) Cell**
- D) Atom

3. Which molecule carries the genetic instructions for the development and function of living things?

- A) RNA
- B) Protein
- C) Lipid
- D) DNA**

4. What process do plants use to convert sunlight into chemical energy?

- A) Respiration
- B) Photosynthesis**
- C) Fermentation
- D) Transpiration

5. In human biology, which blood cells are responsible for fighting infections?

- A) Red blood cells
- B) Platelets
- C) White blood cells**
- D) Plasma

6. Which gas do humans exhale as a waste product of cellular respiration?

- A) Oxygen
- B) Carbon dioxide**
- C) Nitrogen
- D) Hydrogen

7. What is the primary function of the human heart?

- A) Digesting food
- B) Filtering waste
- C) Pumping blood**
- D) Producing hormones

8. Which part of a plant typically absorbs water and nutrients from the soil?

- A) Leaves
- B) Stem
- C) Flower
- D) Roots**

9. How many chromosomes are typically found in a standard human cell nucleus?

- A) 23
- B) 46**
- C) 12
- D) 64

10. Which kingdom do mushrooms belong to?

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

11. What is the largest organ in the human body?

- A) Liver
- B) Brain
- C) Skin**
- D) Lungs

12. Which substance gives plants their green colour?

- A) Chlorophyll**
- B) Carotene
- C) Melanin
- D) Haemoglobin

13. What is the main purpose of the digestive system?

- A) To pump blood
- B) To break down food into nutrients**
- C) To exchange gases
- D) To protect the body

14. Which type of organism consists of only one cell?

A) Multicellular

B) Unicellular

C) Vertebrate

D) Mammal

15. What is the scientific term for an animal that eats only plants?

A) Carnivore

B) Omnivore

C) Herbivore

D) Decomposer