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 primary sugar produced during photosynthesis?

A) Glucose
B) Fructose
C) Lactose
D) Sucrose

3. Which molecule carries genetic information in living organisms?

A) Protein
B) Lipid
C) DNA
D) Carbohydrate

4. What is the process by which plants release water vapour into the atmosphere?

A) Respiration
B) Transpiration
C) Condensation
D) Photosynthesis

5. Which blood cells are responsible for fighting infections in the human body?

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

6. What is the basic structural unit of all living organisms?

A) Tissue
B) Organ
C) Cell
D) System

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

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

8. In genetics, what term describes an organism's observable physical characteristics?

A) Genotype
B) Phenotype
C) Allele
D) Chromosome

9. Which part of the brain is primarily responsible for balance and coordination?

A) Cerebrum
B) Cerebellum
C) Brainstem
D) Thalamus

10. What type of organism is a mushroom?

A) Plant
B) Animal
C) Fungi
D) Protist

11. How many chromosomes are typically found in a standard human somatic cell?

A) 23
B) 46
C) 24
D) 48

12. What is the primary function of the red blood cells?

A) Fighting bacteria
B) Transporting oxygen
C) Clotting blood
D) Producing antibodies

13. Which process results in two genetically identical daughter cells?

A) Meiosis
B) Mitosis
C) Fertilisation
D) Mutation

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

A) Liver
B) Lungs
C) Skin
D) Heart

15. Which vitamin is primarily synthesised by the human body through exposure to sunlight?

A) Vitamin A
B) Vitamin C
C) Vitamin D
D) Vitamin K