General Biology Knowledge Test

Biology · Answer Key · 18 Questions

1. Which organelle is often referred to as the powerhouse of the cell?

A) Nucleus
B) Mitochondrion
C) Ribosome
D) Golgi apparatus

2. What is the primary sugar produced during photosynthesis?

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

3. Which part of the human brain is responsible for balance and coordination?

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

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

A) 23
B) 46
C) 48
D) 92

5. Which blood cells are primarily responsible for fighting infections?

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

6. What is the chemical symbol for the main gas released as a byproduct of photosynthesis?

A) CO_2
B) N_2
C) O_2
D) H_2O

7. Which class of animals are endothermic vertebrates characterized by having feathers?

A) Reptilia
B) Amphibia
C) Mammalia
D) Aves

8. Which pigment gives green plants their characteristic color?

A) Carotenoid
B) Chlorophyll
C) Anthocyanin
D) Xanthophyll

9. What is the process by which a cell divides to produce two genetically identical daughter cells?

A) Meiosis
B) Mitosis
C) Fertilization
D) Transcription

10. Which human organ is responsible for filtering waste products from the blood to produce urine?

A) Liver
B) Pancreas
C) Kidney
D) Spleen

11. What is the structural material that makes up the cell walls of fungi?

A) Cellulose
B) Chitin
C) Starch
D) Glycogen

12. Which base is found in RNA but not in DNA?

A) Adenine
B) Guanine
C) Cytosine
D) Uracil

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13. What term describes an organism that produces its own food using sunlight?

A) Heterotroph
B) Autotroph
C) Decomposer
D) Carnivore

14. Which vessel carries oxygenated blood away from the heart to the rest of the body?

A) Vein
B) Capillary
C) Artery
D) Venule

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

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

16. In genetics, what term describes the physical appearance of an organism?

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

17. Which group of plants produces 'naked seeds' often found in cones?

A) Angiosperms
B) Bryophytes
C) Gymnosperms
D) Pteridophytes

18. What is the scientific name for the collarbone?

A) Scapula
B) Clavicle
C) Femur
D) Patella

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