Essential Life Science Knowledge

Life Science · Answer Key · 20 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 process by which green plants convert light energy into chemical energy?

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

3. How many chromosomes are typically found in a normal human somatic cell?

A) 23
B) 46
C) 48
D) 64

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

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

5. What is the primary function of the large intestine in humans?

A) Digesting proteins
B) Absorbing water
C) Filtering toxins
D) Producing bile

6. Which gas do plants primarily absorb from the atmosphere for photosynthesis?

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

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7. In genetics, what does DNA stand for?

A) Deoxyribonucleic acid
B) Dinucleotide arrangement
C) Deoxynitrogen acid
D) Double nucleic acid

8. Which of the following is considered a primary consumer in an ecosystem?

A) Lion
B) Hawk
C) Rabbit
D) Mushroom

9. What is the main structural component of plant cell walls?

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

10. Which vitamin is produced by the human body when exposed to sunlight?

A) Vitamin A
B) Vitamin B12
C) Vitamin C
D) Vitamin D

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

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

12. Which type of animal maintains a constant internal body temperature?

A) Reptile
B) Amphibian
C) Endotherm
D) Ectotherm

13. What is the basic unit of life?

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

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14. Which substance gives red blood cells their red color?

A) Melanin
B) Chlorophyll
C) Hemoglobin
D) Carotene

15. What is the name of the male reproductive part of a flower?

A) Stamen
B) Pistil
C) Sepal
D) Petal

16. Which of these is a biotic factor in an ecosystem?

A) Temperature
B) Soil pH
C) Bacteria
D) Sunlight

17. What is the primary purpose of meiosis?

A) Growth
B) Repair
C) Sexual reproduction
D) Cell cloning

18. Which organ pumps blood throughout the human body?

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

19. What type of organism breaks down dead organic matter into nutrients?

A) Producer
B) Consumer
C) Decomposer
D) Predator

20. Which part of the human eye is responsible for focusing light?

A) Retina
B) Lens
C) Iris
D) Pupil

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