

Science 8 Concept Review

Science · Answer Key · 20 Questions

1. What is the correct sequence of the digestive process?

A) Digestion, Ingestion, Absorption, Assimilation

B) Ingestion, Digestion, Absorption, Assimilation

C) Absorption, Ingestion, Digestion, Assimilation

D) Assimilation, Digestion, Ingestion, Absorption

2. Which system is responsible for removing waste from the body?

A) Digestive System

B) Excretory System

C) Respiratory System

D) Circulatory System

3. Where do light-dependent reactions occur in a plant cell?

A) Stroma

B) Nucleus

C) Thylakoid Membranes

D) Mitochondria

4. What is the primary product of the Calvin cycle?

A) Oxygen

B) Glucose

C) Carbon dioxide

D) Water

5. What is the function of the xylem in plants?

A) Transports food

B) Transports water and minerals

C) Produces energy

D) Regulates temperature

6. What is the process of losing water vapor through plant stomata called?

A) Guttation

B) Respiration

C) Transpiration

D) Photosynthesis

7. Which type of cellular respiration produces a large amount of ATP using oxygen?

- A) Anaerobic
- B) Aerobic**
- C) Fermentation
- D) Lactic Acid

8. Where does cellular respiration occur in plant and animal cells?

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

9. What is a unit of heredity that controls a trait?

- A) Phenotype
- B) Gene**
- C) Allele
- D) Chromosome

10. Which letter represents a dominant trait in a Punnett square?

- A) Lowercase
- B) Capital**
- C) Italicized
- D) Bold

11. What is the physical appearance of an organism called?

- A) Genotype
- B) Phenotype**
- C) Dominant
- D) Recessive

12. How many subatomic particles are commonly identified in an atom?

- A) One
- B) Two
- C) Three**
- D) Four

13. Which subatomic particle has a negative charge?

- A) Proton
- B) Neutron
- C) Electron**
- D) Nucleus

14. What does the atomic number (Z) represent?

- A) Number of neutrons
- B) Number of protons**
- C) Number of electrons + protons
- D) Mass of the atom

15. How is the mass number (A) calculated?

- A) Protons - Neutrons
- B) Protons + Electrons
- C) Protons + Neutrons**
- D) Electrons + Neutrons

16. In a neutral atom, the number of protons is equal to the number of what?

- A) Neutrons
- B) Electrons**
- C) Nuclei
- D) Isotopes

17. What is the primary source of energy for photosynthesis?

- A) Glucose
- B) Sunlight**
- C) ATP
- D) Oxygen

18. Which of the following is NOT part of the water cycle?

- A) Evaporation
- B) Condensation
- C) Precipitation
- D) Assimilation**

19. What does anaerobic respiration produce in muscles during intense activity?

- A) Glucose
- B) Lactic Acid**
- C) Oxygen
- D) Carbon Dioxide

20. Which kingdom is NOT listed in the six kingdoms of life?

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