

Science 8 Concept Review

Science · Practice Test · 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