

High School Agriculture Fundamentals

Agriculture · Practice Test · 20 Questions

1. Which process do green plants use to convert sunlight into chemical energy?

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

2. What is the primary purpose of applying nitrogen-based fertilizers to crops?

- A) To kill weeds
- B) To increase soil pH
- C) To promote leafy vegetative growth
- D) To improve water drainage

3. Which soil type typically has the smallest particle size and high water-holding capacity?

- A) Sand
- B) Silt
- C) Clay
- D) Loam

4. What is the term for the raising of aquatic animals in controlled environments?

- A) Horticulture
- B) Aquaculture
- C) Silviculture
- D) Apiculture

5. In livestock production, what is a 'ruminant'?

- A) An animal with a single-chambered stomach
- B) An animal that grazes exclusively on grain
- C) An animal with a multi-compartment stomach
- D) An animal that does not produce milk

6. What does the term 'fallow' mean in crop rotation?

- A) Harvesting crops early
- B) Leaving land unplanted to recover nutrients
- C) Adding water to crops
- D) Burning crop stubble

7. Which nutrient is primarily responsible for root development and flower production?

- A) Nitrogen
- B) Phosphorus
- C) Potassium
- D) Iron

8. What is the main byproduct of the respiration process in plants?

- A) Oxygen
- B) Carbon dioxide
- C) Nitrogen
- D) Glucose

9. What is 'monoculture' in farming?

- A) Growing many types of plants in one area
- B) The cultivation of a single crop over a large area
- C) Using only organic fertilizer
- D) Rotating crops every season

10. Which of the following is considered an 'abiotic' factor in an agricultural ecosystem?

- A) Earthworms
- B) Fungi
- C) Temperature
- D) Bacteria

11. What is the primary function of the xylem in a plant?

- A) To transport water from roots to leaves
- B) To transport sugars from leaves to roots
- C) To provide mechanical support
- D) To perform photosynthesis

12. What is the definition of 'agronomy'?

- A) The study of animal behavior
- B) The science of soil management and crop production
- C) The design of farm machinery
- D) The marketing of agricultural goods

13. Which insect is vital for the pollination of many commercial fruit and vegetable crops?

- A) Locust
- B) Honey bee
- C) Termite
- D) Cockroach

14. What is the main goal of sustainable agriculture?

- A) To maximize profit at any cost
- B) To meet present needs without compromising future resources
- C) To eliminate the use of all machinery
- D) To rely solely on imported seeds

15. In sheep farming, what is the process of removing wool called?

- A) Shearing
- B) Drenching
- C) Dipping
- D) Crutching

16. What is 'humus' in the context of soil science?

- A) A type of heavy clay
- B) Decaying organic matter
- C) A synthetic fertilizer
- D) A toxic soil mineral

17. Which crop is categorized as a legume?

- A) Wheat
- B) Maize
- C) Soybean
- D) Rice

18. What is the primary cause of soil erosion?

- A) Wind and water
- B) Planting trees
- C) Adding compost
- D) Crop rotation

19. What does the term 'pH' measure in agricultural soil?

- A) The amount of water
- B) The level of acidity or alkalinity
- C) The percentage of organic matter
- D) The depth of the topsoil

20. What is 'transpiration' in plants?

- A) The release of water vapor through leaves
- B) The intake of carbon dioxide
- C) The growth of roots
- D) The absorption of soil nutrients