

CROP SCIENCE REVIEWER BY AGRICULTURE REVIEW

1. Which of the following is a common herbicide used to control broadleaf weeds?

- a. Glyphosate
- b. 2,4-D
- c. Atrazine
- d. Pendimethalin

2. Which type of weed is most difficult to control?

- a. Annual weeds
- b. Biennial weeds
- c. Perennial weeds
- d. Ephemeral weeds

3. What is allelopathy in weed science?

- a. Competition for light
- b. Release of toxic chemicals by plants
- c. Growth enhancement of neighboring plants
- d. Symbiotic relationship with fungi

4. Which cultural practice can help in weed management?

- a. Overgrazing
- b. Mono-cropping
- c. Crop rotation
- d. Deep plowing

5. What is the primary purpose of using pre-emergent herbicides?

- a. To kill existing weeds
- b. To prevent weed seed germination
- c. To improve soil fertility
- d. To increase crop yield

6. Which method is commonly used for drying grains post-harvest?

- a. Refrigeration
- b. Sun drying
- c. Vacuum drying
- d. Microwave drying

7. What is the main purpose of post-harvest cooling?

- a. Enhance ripening
- b. Reduce respiration rate
- c. Increase moisture content
- d. Improve color

8. Which of the following is a common method for storing fruits?

- a. Controlled atmosphere storage
- b. Dry storage
- c. Humid storage
- d. Open air storage

9. What is the primary concern in post-harvest handling of vegetables?

- a. Loss of flavor
- b. Weight loss
- c. Nutrient degradation
- d. Pest infestation

10. Which of the following is a technique used to extend the shelf life of perishable products?

- a. Blanching
- b. Canning
- c. Ethylene treatment
- d. Packaging

11. What is the main benefit of using drip irrigation?

- a. Reduces soil erosion
- b. Conserves water
- c. Increases crop yield
- d. Enhances weed control

12. Which method is commonly used for transplanting rice seedlings?

- a. Direct seeding
- b. Broadcast seeding
- c. Line transplanting
- d. Aeroponics

13. Which practice is used to prevent soil compaction in crop production?

- a. Deep plowing
- b. No-till farming
- c. Over-irrigation
- d. High-density planting

14. What is the purpose of using cover crops in crop production?

- a. Enhance soil fertility
- b. Increase crop yield
- c. Control pests
- d. Reduce irrigation needs

15. Which of the following is a method of conservation tillage?

- a. Moldboard plowing
- b. Strip tillage
- c. Disking
- d. Chisel plowing

16. What is the main goal of genetic modification in crops?

- a. Increase nutritional value
- b. Enhance flavor
- c. Improve pest resistance
- d. Reduce growth time

17. Which technique is used to introduce new genes into a plant?

- a. Grafting
- b. Crossbreeding
- c. Tissue culture
- d. Transformation

18. Which of the following is a genetically modified crop known for insect resistance?

- a. Bt cotton
- b. Golden rice
- c. Roundup Ready soybeans
- d. Flavr Savr tomato

19. Which organism is commonly used as a vector in plant genetic engineering?

- a. Escherichia coli
- b. Bacillus thuringiensis
- c. Agrobacterium tumefaciens
- d. Saccharomyces cerevisiae

20. What is the purpose of marker-assisted selection in plant breeding?

- a. To identify desirable traits in plants
- b. To enhance seed germination
- c. To increase plant size
- d. To reduce plant diseases

21. Which of the following is a high-yielding variety of rice?

- a. IR36
- b. Kesar
- c. Alphonso
- d. Pusa 1121

22. What type of crop is 'Kalyan Sona'?

- a. Wheat
- b. Rice
- c. Maize
- d. Barley

23. Which variety of potato is resistant to late blight?

- a. Kufri Jyoti
- b. Kufri Bahar
- c. Kufri Sindhuri
- d. Kufri Pukhraj

24. Which is a popular hybrid variety of maize?

- a. Ganga Safed-2
- b. Sharbati Sonora
- c. Ratna
- d. Jaya

25. Which of the following is a salt-tolerant variety of wheat?

- a. KRL 19
- b. HD 2967
- c. PBW 343
- d. WH 1080

26. What is the primary role of phosphorus in plants?

- a. Leaf development
- b. Root development
- c. Disease resistance
- d. Flowering

27. Which nutrient is essential for chlorophyll synthesis?

- a. Nitrogen
- b. Potassium
- c. Magnesium
- d. Phosphorus

28. What deficiency causes chlorosis in plants?

- a. Potassium
- b. Iron
- c. Calcium
- d. Zinc

29. Which element is known as the 'structural element' in plants?

- a. Calcium
- b. Potassium
- c. Nitrogen
- d. Magnesium

30. What is the role of potassium in plants?

- a. Improve drought resistance
- b. Enhance root growth
- c. Stimulate flower production
- d. Increase disease resistance

31. What is the main purpose of using herbicide safeners?

- a. Enhance herbicide effectiveness
- b. Protect crops from herbicide damage
- c. Increase herbicide residual activity
- d. Reduce herbicide application rates

32. Which weed is commonly known as 'Parthenium'?

- a. Cynodon dactylon
- b. Amaranthus viridis
- c. Parthenium hysterophorus
- d. Cyperus rotundus

33. What is the function of a surfactant in herbicide application?

- a. Reduce evaporation
- b. Enhance spreading and wetting
- c. Increase herbicide absorption
- d. Improve herbicide solubility

34. Which is a non-selective herbicide?

- a. Pendimethalin
- b. Simazine
- c. Glyphosate
- d. Atrazine

35. What is the main advantage of using integrated weed management?

- a. Reduces herbicide resistance
- b. Increases crop yield
- c. Enhances soil fertility
- d. Reduces labor costs

36. Which of the following methods is used for the long-term storage of grains?

- a. Hot air drying
- b. Vacuum packing
- c. Hermetic storage
- d. Open air drying

37. What is the main objective of post-harvest processing of grains?

- a. Improve flavor
- b. Enhance color
- c. Reduce moisture content
- d. Increase size

38. Which gas is commonly used in controlled atmosphere storage to extend the shelf life of fruits?

- a. Oxygen
- b. Nitrogen
- c. Carbon dioxide
- d. Hydrogen

39. What is the primary benefit of blanching vegetables before freezing?

- a. Enhance flavor
- b. Preserve color and texture
- c. Increase size
- d. Improve taste

40. Which of the following is a common method of pest control in stored grains?

- a. Fumigation
- b. Irradiation
- c. Fermentation
- d. Solar drying

41. Which of the following is a benefit of conservation agriculture?

- a. Increased use of chemical fertilizers
- b. Reduced soil erosion
- c. Decreased crop diversity
- d. Enhanced weed growth

42. What is the primary objective of precision farming?

- a. Increase manual labor
- b. Reduce crop yields
- c. Optimize field-level management
- d. Minimize machinery use

43. Which method is used to conserve soil moisture in dryland farming?

- a. Irrigation
- b. Mulching
- c. Tillage
- d. Crop rotation

44. Which crop is typically grown in an upland cropping system?

- a. Taro
- b. Jute
- c. Onion
- d. Maize

45. What is the primary goal of sustainable agriculture?

- a. Maximize short-term profits
- b. Increase use of chemical inputs
- c. Ensure long-term productivity
- d. Reduce labor requirements

46. What is the primary mode of action of contact herbicides?

- a. Inhibit photosynthesis
- b. Disrupt cell membranes
- c. Inhibit amino acid synthesis
- d. Block growth hormones

47. Which of the following is a method used for the pasteurization of milk?

- a. High-Pressure Processing (HPP)
- b. Ultra-High Temperature (UHT) processing
- c. Freezing
- d. Dehydration

48. What is the purpose of green manuring in crop production?

- a. Control pests
- b. Improve soil fertility
- c. Reduce irrigation needs
- d. Enhance crop flavor

49. Which gene is commonly used for developing herbicide-resistant crops?

- a. Bt gene
- b. EPSPS gene
- c. CRY gene
- d. GUS gene

50. Which of the following is a drought-tolerant variety of sorghum?

- a. M35-1
- b. Co 419
- c. CSH 16
- d. PVK 801

Answer Key

1. b	2. c	3. b	4. c	5. b
6. b	7. b	8. a	9. c	10. d
11. b	12. c	13. b	14. a	15. b
16. c	17. d	18. a	19. c	20. a
21. a	22. a	23. a	24. a	25. a
26. b	27. c	28. b	29. a	30. a
31. b	32. c	33. b	34. c	35. a
36. c	37. c	38. c	39. b	40. a
41. b	42. c	43. b	44. d	45. c
46. b	47. b	48. b	49. b	50. a