

Crop Science Reviewer By Agriculture Review

1. What family does the mungbean (*Vigna radiata*) belong to?

- a. Solanaceae
- b. Fabaceae
- c. Cucurbitaceae
- d. Poaceae

2. Which part of the plant is primarily responsible for photosynthesis?

- a. Root
- b. Leaf
- c. Stem
- d. Flower

3. Which cereal crop is known as the "queen of cereals"?

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

4. What term describes a plant that completes its life cycle within one year?

- a. Annual
- b. Biennial
- c. Perennial
- d. Epiphyte

5. The critical stage of water requirement in rice is:

- a. Tillering
- b. Panicle initiation
- c. Flowering
- d. Maturity

6. What is the main storage organ in potato?

- a. Root
- b. Tuber
- c. Rhizome
- d. Bulb

7. Which of the following is an example of a dicot crop?

- a. Maize
- b. Sorghum
- c. Wheat
- d. Soybean

8. Which hormone promotes cell elongation in plants?

- a. Cytokinin
- b. Auxin
- c. Absciscic acid
- d. Ethylene

9. The process of soaking seeds in water before sowing is known as:

- a. Stratification
- b. Scarification
- c. Priming
- d. Mulching

10. Which is a C4 crop among the following?

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

11. Which micronutrient is essential for nitrogen fixation in legumes?

- a. Iron
- b. Boron
- c. Molybdenum
- d. Copper

12. What is the ideal seed moisture content for safe storage?

- a. 18%
- b. 12%
- c. 8%
- d. 5%

13. In crop physiology, what is the function of stomata?

- a. Water absorption
- b. Gaseous exchange
- c. Mineral uptake
- d. Translocation

14. Which weed is commonly associated with rice fields?

- a. Echinochloa crus-galli
- b. Cyperus rotundus
- c. Imperata cylindrica
- d. Parthenium hysterophorus

15. What is the term for a crop grown to enrich soil fertility?

- a. Cover crop
- b. Green manure
- c. Catch crop
- d. Ratoon crop

16. What is the first visible symptom of iron deficiency in plants?

- a. Leaf tip burn
- b. Interveinal chlorosis
- c. Purpling of leaves
- d. Leaf curling

17. What is the optimum temperature range for rice germination?

- a. 10–15°C
- b. 15–25°C
- c. 25–35°C
- d. 35–45°C

18. Which of the following is a physiological maturity indicator in maize?

- a. Leaf yellowing
- b. Black layer formation
- c. Husk drying
- d. Ear drooping

19. The seed viability is best tested by:

- a. Float test
- b. Germination test
- c. Moisture content
- d. Seed weight

20. Which nutrient is considered immobile in plants?

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

21. What is the scientific name of rice?

- a. Triticum aestivum
- b. Zea mays
- c. Oryza sativa
- d. Avena sativa

22. The process of removal of excess moisture from grains after harvest is known as:

- a. Winnowing
- b. Grading
- c. Drying
- d. Milling

23. Which physiological process is most directly affected by water stress in plants?

- a. Transpiration
- b. Photosynthesis
- c. Respiration
- d. Glycolysis

24. Which part of a monocot seed contains the food reserve?

- a. Cotyledon
- b. Endosperm
- c. Embryo
- d. Coleoptile

25. Which of the following crops is a self-pollinated crop?

- a. Corn
- b. Sorghum
- c. Wheat
- d. Cotton

26. What is the primary function of gibberellins in plants?

- a. Promotes root growth
- b. Delays leaf senescence
- c. Stimulates stem elongation
- d. Inhibits seed germination

27. What is the average sowing depth for rice seeds in direct seeding?

- a. 1–2 cm
- b. 2–3 cm
- c. 3–4 cm
- d. 4–5 cm

28. Which crop is typically used as a bioindicator for soil nitrogen deficiency?

- a. Maize
- b. Cotton
- c. Cabbage
- d. Spinach

29. What is the method of sowing seeds at regular intervals in rows?

- a. Broadcasting
- b. Dibbling
- c. Drilling
- d. Transplanting

30. What is the economic yield in crops?

- a. Total dry matter
- b. Harvest index
- c. Useful part harvested
- d. Total biomass produced

31. Which is not a post-harvest operation?

- a. Cleaning
- b. Sorting
- c. Irrigation
- d. Packaging

32. What is the common name for *Cyperus rotundus*?

- a. Nut grass
- b. Wild oat
- c. Goosegrass
- d. Crabgrass

33. Which crop uses ratooning as a common practice?

- a. Rice
- b. Sugarcane
- c. Tobacco
- d. Corn

34. Which organelle in plant cells is responsible for photosynthesis?

- a. Mitochondria
- b. Chloroplast
- c. Nucleus
- d. Golgi body

35. Which gas is released during photorespiration?

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

36. In seed technology, what does the term "seed vigor" refer to?

- a. Germination percentage
- b. Seed moisture level
- c. Seedling performance under stress
- d. Seed purity

37. Which component is responsible for the green color in plant leaves?

- a. Chlorophyll
- b. Xanthophyll
- c. Anthocyanin
- d. Carotene

38. What is the botanical name of maize?

- a. Zea mays
- b. Oryza sativa
- c. Triticum durum
- d. Hordeum vulgare

39. Which of the following is a major weed in sugarcane fields?

- a. Cyperus esculentus
- b. Amaranthus spinosus
- c. Saccharum spontaneum
- d. Avena fatua

40. In which part of the plant does the Calvin cycle take place?

- a. Mitochondria
- b. Thylakoid membrane
- c. Stroma of chloroplast
- d. Cytoplasm

41. What is the most widely used method for hybrid seed production in rice?

- a. Mass selection
- b. Pure line selection
- c. Cytoplasmic male sterility
- d. Apomixis

42. The primary pigment involved in light absorption during photosynthesis is:

- a. Chlorophyll a
- b. Chlorophyll b
- c. Carotene
- d. Xanthophyll

43. The process of hardening seedlings before transplanting is meant to:

- a. Improve chlorophyll content
- b. Increase shoot elongation
- c. Reduce transplanting shock
- d. Prevent diseases

44. What type of germination occurs when cotyledons remain underground?

- a. Epigeal
- b. Hypogeal
- c. Vivipary
- d. Apogeal

45. Which of the following is NOT a cereal crop?

- a. Barley
- b. Sorghum
- c. Rice
- d. Groundnut

46. Which vitamin is synthesized in leguminous root nodules?

- a. Vitamin A
- b. Vitamin C
- c. Vitamin B12
- d. Vitamin D

47. What is the ideal time for harvesting maize for silage?

- a. Early vegetative stage
- b. Dough stage
- c. Milk stage
- d. Hard dough stage

48. Which growth phase of a crop shows maximum dry matter accumulation?

- a. Lag phase
- b. Log phase
- c. Senescence
- d. Dormancy

49. The term "vernalization" refers to:

- a. Inhibition of flowering by light
- b. Promotion of flowering by chilling
- c. Seed dormancy treatment
- d. Translocation of sugars

50. Which crop is typically grown as a cash crop in dryland areas?

- a. Rice
- b. Cotton
- c. Sugarcane
- d. Banana

51. Which gas is used for artificial ripening of fruits?

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

52. Which rice variety is resistant to bacterial leaf blight?

- a. IR64
- b. IR36
- c. IR20
- d. IRBB21

53. The removal of stamens to prevent self-pollination is known as:

- a. Bagging
- b. Crossing
- c. Emasculation
- d. Hybridization

54. Which of the following is a photoperiod-insensitive crop?

- a. Rice
- b. Soybean
- c. Tomato
- d. Wheat

55. The ratio of economic yield to biological yield is called:

- a. Gross productivity
- b. Harvest index
- c. Net return
- d. Benefit-cost ratio

56. Which seed treatment chemical is commonly used to control fungal diseases?

- a. Carbofuran
- b. Thiram
- c. Paraquat
- d. Malathion

57. What is the common botanical family of legumes?

- a. Gramineae
- b. Solanaceae
- c. Fabaceae
- d. Cruciferae

58. In rice cultivation, what is the ideal water depth during transplanting?

- a. 1–2 cm
- b. 3–5 cm
- c. 6–8 cm
- d. 9–10 cm

59. Which of the following crops is considered a short-day plant?

- a. Spinach
- b. Lettuce
- c. Soybean
- d. Carrot

60. Which micronutrient is essential for pollen germination and fruit setting?

- a. Zinc
- b. Iron
- c. Copper
- d. Boron

61. Which part of the maize plant is used for silage production?

- a. Only leaves
- b. Whole plant
- c. Only cobs
- d. Only stalk

62. The term "lodging" in cereals refers to:

- a. Attack of pests on grains
- b. Yellowing of leaves
- c. Falling of plants due to weak stem
- d. Cracking of grains

63. Which one of the following is a C4 plant?

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

64. Which crop is mainly affected by blast disease?

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

65. What is the average spacing for transplanting lowland rice?

- a. 10 x 10 cm
- b. 15 x 15 cm
- c. 20 x 20 cm
- d. 25 x 25 cm

66. Which element is essential for nitrogen fixation in legumes?

- a. Zinc
- b. Boron
- c. Molybdenum
- d. Magnesium

67. The three macronutrients required in large quantities by plants are:

- a. N, K, Zn
- b. N, P, K
- c. Ca, S, Mg
- d. N, P, Fe

68. Which rice planting method has the highest water requirement?

- a. Transplanting
- b. Broadcasting
- c. SRI
- d. Drilling

69. The nodulation in leguminous crops is due to:

- a. Rhizobium
- b. Azotobacter
- c. Azospirillum
- d. Nostoc

70. Which of the following is an indicator plant for sulfur deficiency?

- a. Sugarcane
- b. Onion
- c. Mustard
- d. Tomato

71. Which technique is used for maintaining genetic purity in seed production?

- a. Isolation distance
- b. Seed dressing
- c. Irrigation scheduling
- d. Fertilizer application

72. Which of the following crops is known for allelopathic effects?

- a. Wheat
- b. Sorghum
- c. Sunflower
- d. Rice

73. The major physiological function of potassium in plants is:

- a. Chlorophyll synthesis
- b. Enzyme activation and stomatal regulation
- c. Energy transfer
- d. Protein synthesis

74. Which of the following is the most sensitive crop to waterlogging?

- a. Maize
- b. Cotton
- c. Mustard
- d. Rice

75. Which is the most suitable method of irrigation for row crops in arid areas?

- a. Basin irrigation
- b. Sprinkler irrigation
- c. Surface irrigation
- d. Drip irrigation

76. Which of the following is used to measure light intensity for crop studies?

- a. Pyranometer
- b. Barometer
- c. Thermohygrometer
- d. Rain gauge

77. The most commonly used biofertilizer for rice is:

- a. Rhizobium
- b. Azotobacter
- c. Azolla
- d. Mycorrhiza

78. What is the propagation method used in potato cultivation?

- a. True seed
- b. Stem cutting
- c. Tuber planting
- d. Sucker planting

79. The hormone responsible for cell division in plants is:

- a. Auxin
- b. Cytokinin
- c. Gibberellin
- d. Absciscic acid

80. Which is the scientific name of sugarcane commonly cultivated in the Philippines?

- a. *Saccharum officinarum*
- b. *Saccharum spontaneum*
- c. *Saccharum sinense*
- d. *Saccharum barberi*

81. Which crop is considered a major source of edible oil in the Philippines?

- a. Coconut
- b. Mustard
- c. Soybean
- d. Sesame

82. Which method is commonly used for sugarcane planting in the Philippines?

- a. Transplanting
- b. Ring method
- c. Trench planting
- d. Dibbling

83. Which among the following crops is propagated through stolons?

- a. Sweet potato
- b. Strawberry
- c. Ginger
- d. Banana

84. In rice, what is the ideal temperature for maximum grain filling?

- a. 15–20°C
- b. 21–23°C
- c. 24–26°C
- d. 27–32°C

85. Which enzyme breaks down starch into sugar during seed germination?

- a. Protease
- b. Amylase
- c. Cellulase
- d. Lipase

86. What type of inflorescence is found in sunflower?

- a. Panicle
- b. Raceme
- c. Capitulum
- d. Spikelet

87. Which micronutrient deficiency leads to khaira disease in rice?

- a. Zinc
- b. Iron
- c. Manganese
- d. Boron

88. Which pulse crop is tolerant to saline soils?

- a. Mungbean
- b. Cowpea
- c. Chickpea
- d. Lentil

89. Which growth regulator is responsible for breaking seed dormancy?

- a. Absciscic acid
- b. Cytokinin
- c. Gibberellin
- d. Ethylene

90. Which of the following crops has hypogeal germination?

- a. Mustard
- b. Maize
- c. Castor
- d. Cotton

91. Which is the correct seed rate for transplanting rice per hectare?

- a. 15–20 kg
- b. 40–50 kg
- c. 60–70 kg
- d. 80–90 kg

92. The process of removing off-type plants in seed production is called:

- a. Weeding
- b. Roguing
- c. Threshing
- d. Spraying

93. Which of the following is a protein-rich cereal?

- a. Wheat
- b. Maize
- c. Sorghum
- d. Oat

94. Which of the following is a drought-escaping crop?

- a. Finger millet
- b. Maize
- c. Sorghum
- d. Green gram

95. In which plant is phyllody disease commonly observed?

- a. Cotton
- b. Sesame
- c. Sunflower
- d. Maize

96. What is the botanical name of cassava?

- a. Manihot esculenta
- b. Dioscorea alata
- c. Colocasia esculenta
- d. Ipomoea batatas

97. What is the test used to determine seed moisture content?

- a. Tetrazolium test
- b. Accelerated aging test
- c. Oven-drying method
- d. Float test

98. Which hybrid rice technology was first released in the Philippines?

- a. Mestiso 1
- b. PSB Rc 18
- c. NSIC Rc 160
- d. IR64

99. Which of the following is a recommended spacing for upland corn?

- a. 25 x 25 cm
- b. 50 x 25 cm
- c. 75 x 25 cm
- d. 100 x 25 cm

100. Which of the following is used to test seed viability?

- a. Accelerated aging test
- b. Tetrazolium test
- c. Conductivity test
- d. Cold test

Answer Key

1. b	26. c	51. c	76. a
2. b	27. b	52. d	77. c
3. b	28. a	53. c	78. c
4. a	29. c	54. c	79. b
5. c	30. c	55. b	80. a
6. b	31. c	56. b	81. a
7. d	32. a	57. c	82. c
8. b	33. b	58. b	83. b
9. c	34. b	59. c	84. d
10. d	35. b	60. d	85. b
11. c	36. c	61. b	86. c
12. b	37. a	62. c	87. a
13. b	38. a	63. c	88. b
14. a	39. c	64. b	89. c
15. b	40. c	65. b	90. b
16. b	41. c	66. c	91. b
17. c	42. a	67. b	92. b
18. b	43. c	68. a	93. d
19. b	44. b	69. a	94. d
20. c	45. d	70. c	95. b
21. c	46. c	71. a	96. a
22. c	47. b	72. b	97. c
23. b	48. b	73. b	98. a
24. b	49. b	74. c	99. c
25. c	50. b	75. d	100. b