

# MCAER Mock Test

## Topic Agronomy

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1. Which crop is known as a "Wonder Crop"?

- a) Wheat
- b) Maize
- c) Soybean
- d) Rice

**Answer:** c) Soybean

2. The scientific study of crop production and soil management is called:

- a) Horticulture
- b) Agronomy
- c) Soil Science
- d) Plant Pathology

**Answer:** b) Agronomy

3. Optimum plant population for wheat per hectare is:

- a) 1-2 lakh lakh
- b) 7-8 lakh
- c) 4-5 lakh
- d) 9-10 lakh

**Answer:** c) 4-5 lakh

4. Seed rate for hybrid rice is approximately:

- a) 15-20 kg/ha
- b) 40-50 kg/ha
- c) 60-70 kg/ha



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d) 80-100 kg/ha

**Answer:** a) 15-20 kg/ha

5. The process of hardening seedlings before transplanting is known as:

a) Stratification

b) Vernalization

c) Acclimatization

d) Germination

**Answer:** c) Acclimatization

6. The mineral form of Nitrogen absorbed by plants is:

a) Ammonia ( $\text{NH}_3$ )

b) Nitrate ( $\text{NO}_3^-$ ) and Ammonium ( $\text{NH}_4^+$ )

c) Nitrite ( $\text{NO}_2^-$ )

d) Urea

**Answer:** b) Nitrate ( $\text{NO}_3^-$ ) and Ammonium ( $\text{NH}_4^+$ )

7. Which fertilizer has the highest nitrogen content?

a) Ammonium sulfate

b) Calcium ammonium nitrate

c) Urea

d) DAP

**Answer:** c) Urea

8. The process of nutrient movement towards roots with water flow is called:

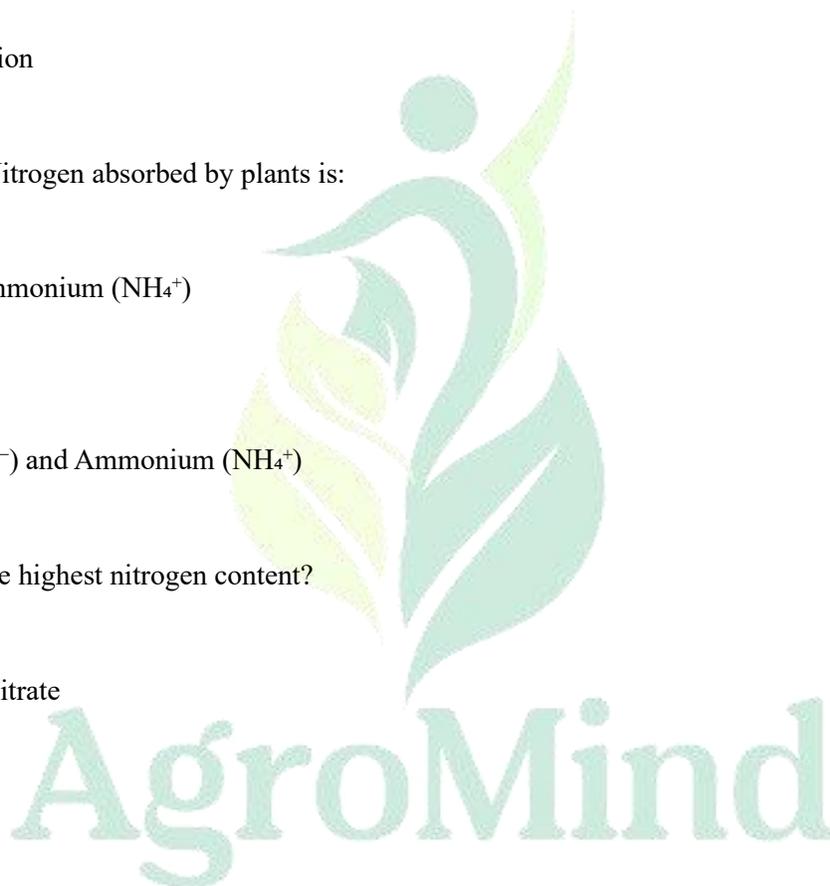
a) Diffusion

b) Root interception

c) Mass flow

d) Active transport

**Answer:** c) Mass flow



9. Sulfur deficiency in plants causes:

- a) Chlorosis of young leaves
- b) Necrosis of older leaves
- c) Purple coloration of leaves
- d) Wilting of leaves

**Answer:** a) Chlorosis of young leaves

10. Drip irrigation is most suitable for:

- a) Rice
- b) Sugarcane
- c) Cotton
- d) Fruit crops

**Answer:** d) Fruit crops

11. Which method of irrigation leads to maximum water wastage?

- a) Drip irrigation
- b) Sprinkler irrigation
- c) Flood irrigation
- d) Furrow irrigation

**Answer:** c) Flood irrigation

12. Critical stage of irrigation for wheat is:

- a) Tillering
- b) Crown root initiation
- c) Flowering
- d) Maturity

**Answer:** b) Crown root initiation

13. The ratio of irrigation water required to the water consumed by crops is:

- a) Water use efficiency
- b) Irrigation efficiency



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- c) Consumptive use
- d) Irrigation requirement

**Answer:** b) Irrigation efficiency

**14.** Water harvesting is most effective in which type of region?

- a) Coastal region
- b) Humid region
- c) Semi-arid region
- d) Flood-prone region

**Answer:** c) Semi-arid region

**15.** Which is a selective herbicide used in wheat?

- a) Glyphosate
- b) 2,4-D
- c) Atrazine
- d) Paraquat

**Answer:** b) 2,4-D

**16.** Striga is a major parasitic weed in which crop?

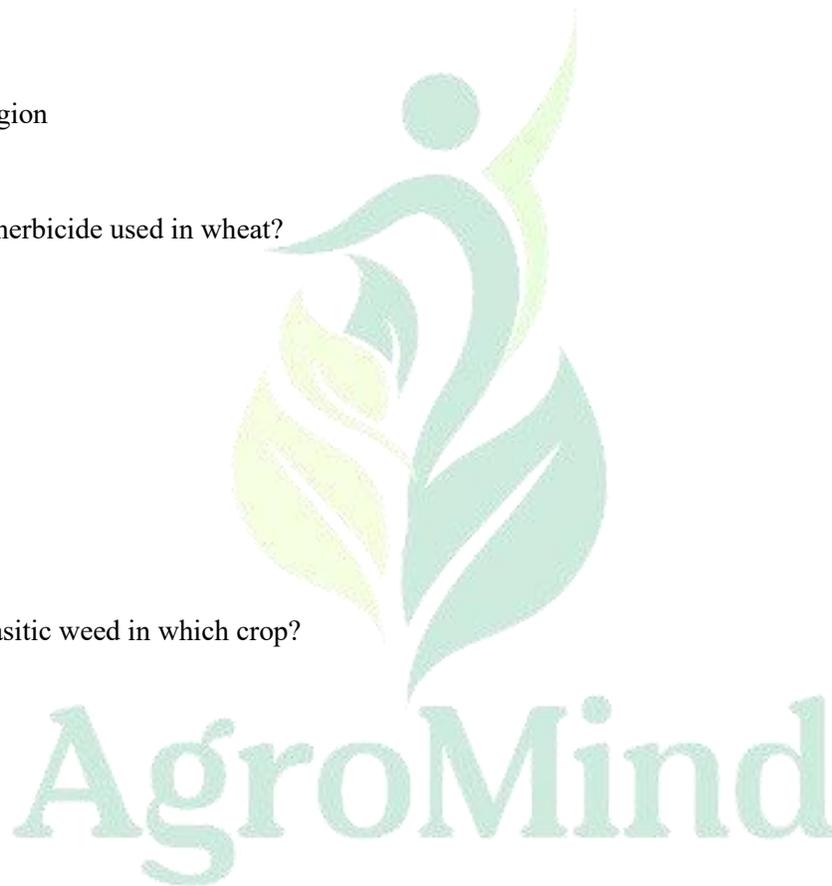
- a) Wheat
- b) Soyabean
- c) Sorghum
- d) Pigeon Pea

**Answer:** c) Sorghum

**17.** Which method is most suitable for weed control in organic farming?

- a) Chemical control
- b) Biological control
- c) Mechanical control
- d) Mulching

**Answer:** d) Mulching



18. The active ingredient in Roundup herbicide is:

- a) Atrazine
- b) Paraquat
- c) Glyphosate
- d) 2,4-D

**Answer:** c) Glyphosate

19. Which of the following weeds is known as "Devil Weed"?

- a) Chromolaena odorata
- b) Parthenium hysterophorus
- c) Cyperus rotundus
- d) Amaranthus spinosus

**Answer:** a) Chromolaena odorata

20. Relay cropping means:

- a) Growing two crops simultaneously
- b) Growing one crop after another without a gap
- c) Sowing a second crop before the first is harvested
- d) Growing the same crop repeatedly

**Answer:** c) Sowing a second crop before the first is harvested

21. Legume crops enrich the soil by fixing:

- a) Potassium
- b) Nitrogen
- c) Phosphorus
- d) Sulfur

**Answer:** b) Nitrogen

22. The concept of organic farming focuses on:

- a) Chemical fertilizers



- b) Synthetic pesticides
- c) Natural inputs and ecological balance
- d) Hybrid seeds

**Answer:** c) Natural inputs and ecological balance

**23.** The most common crop rotation in India is:

- a) Maize-Wheat
- b) Rice-Wheat
- c) Cotton-Wheat
- d) Sugarcane-Potato

**Answer:** b) Rice-Wheat

**24.** Sustainable agriculture focuses on:

- a) High chemical input
- b) Soil health and environmental safety
- c) Maximum yield
- d) Genetic modification

**Answer:** b) Soil health and environmental safety

**25.** Which crop is most sensitive to frost?

- a) Wheat
- b) Potato
- c) Maize
- d) Cotton

**Answer:** d) Cotton

**26.** Microclimate is influenced mainly by:

- a) Global temperature
- b) Regional rainfall
- c) Crop canopy and soil type
- d) Ocean currents



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**Answer:** c) Crop canopy and soil type

**27.** Optimum temperature for rice cultivation is:

- a) 15-20°C
- b) 20-25°C
- c) 25-32°C
- d) 32-35°C

**Answer:** c) 25-30°C

**28.** Which crop is suitable for saline soils?

- a) Rice
- b) Cotton
- c) Barley
- d) Maize

**Answer:** c) Barley

**29.** The branch of science that deals with principles and practices of crop production is:

- a) Horticulture
- b) Agronomy
- c) Soil Science
- d) Plant Breeding

**Answer:** b) Agronomy

**30.** The scientific method of growing crops on raised beds is called:

- a) Ridge and furrow method
- b) Bed planting
- c) Flat sowing
- d) Drilling

**Answer:** b) Bed planting

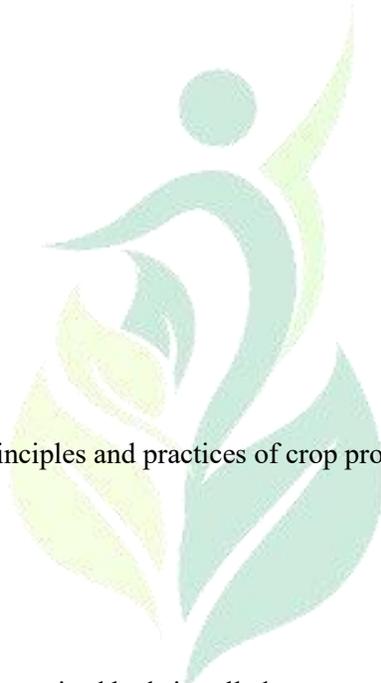
**31.** Which of the following is a Rabi crop?

- a) Rice
- b) Maize
- c) Wheat
- d) Cotton

**Answer:** c) Wheat

**32.** The average seed rate of maize per hectare is:

- a) 20-25 kg
- b) 40-50 kg
- c) 10-15 kg



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d) 50-60 kg

**Answer:** a) 20-25 kg

**33.** The concept of "Package of Practices" is associated with:

- a) Fertilizer management
- b) Comprehensive crop management
- c) Weed control
- d) Crop protection

**Answer:** b) Comprehensive crop management

**34.** Which micronutrient is essential for nitrogen fixation in legumes?

- a) Zinc
- b) Boron
- c) Molybdenum
- d) Iron

**Answer:** c) Molybdenum

**35.** Soil with a pH below 5.5 is considered:

- a) Neutral
- b) Acidic
- c) Alkaline
- d) Saline

**Answer:** b) Acidic

**36.** The fertilizer used for basal application in paddy is:

- a) Urea
- b) DAP
- c) Ammonium sulfate
- d) MOP

**Answer:** b) DAP

**37.** The process of converting atmospheric nitrogen into a usable form by plants is called:

- a) Denitrification
- b) Nitrification
- c) Nitrogen fixation
- d) Mineralization

**Answer:** c) Nitrogen fixation

**38.** The "Duty" of water is measured in:

- a) Liters per second
- b) Cubic meters per second
- c) Hectares per cubic meter
- d) Hectares per cumec

**Answer:** d) Hectares per cumec

**39.** Which method of irrigation is best for sandy soils?

- a) Flood irrigation
- b) Sprinkler irrigation



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- c) Furrow irrigation
- d) Drip irrigation

**Answer:** b) Sprinkler irrigation

**40.** Which crop requires the highest amount of irrigation water?

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

**Answer:** a) Rice

**41.** Which of the following is a monocot weed?

- a) Amaranthus
- b) Cynodon dactylon
- c) Chenopodium
- d) Parthenium

**Answer:** b) Cynodon dactylon

**42.** Pre-emergence herbicide commonly used in rice is:

- a) Butachlor
- b) Glyphosate
- c) Paraquat
- d) 2,4-D

**Answer:** a) Butachlor

**43.** Which weed is known for causing hay fever?

- a) Parthenium
- b) Cyperus
- c) Amaranthus
- d) Lantana

**Answer:** a) Parthenium

**44.** The scientific name of Wild Oat is:

- a) *Avena fatua*
- b) *Phalaris minor*
- c) *Echinochloa crus-galli*
- d) *Cyperus rotundus*

**Answer:** a) *Avena fatua*

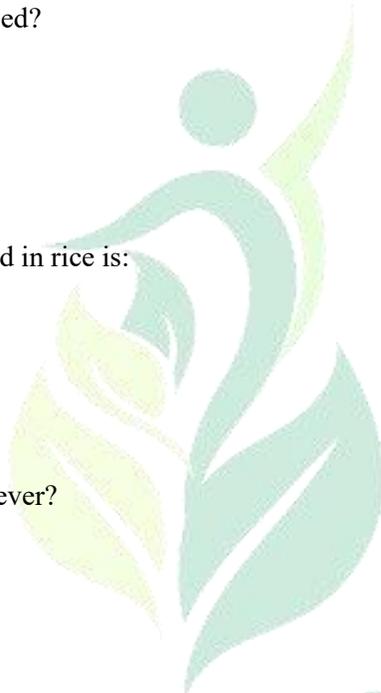
**45.** Growing two or more crops in the same field in a definite row pattern is called:

- a) Mixed cropping
- b) Intercropping
- c) Relay cropping
- d) Sequential cropping

**Answer:** b) Intercropping

**46.** Which cropping system conserves soil moisture effectively?

- a) Mixed cropping
- b) Alley cropping
- c) Strip cropping



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d) Intercropping

**Answer:** c) Strip cropping

47. Agroforestry is the integration of:

a) Crops and fisheries

b) Crops and livestock

c) Crops and trees

d) Trees and livestock

**Answer:** c) Crops and trees

48. The most sustainable farming system is:

a) Monoculture

b) Mixed farming

c) Intensive farming

d) Organic farming

**Answer:** d) Organic farming

49. Which agro-climatic zone of Maharashtra is ideal for grape cultivation?

a) Vidarbha

b) Konkan

c) Western Maharashtra

d) Marathwada

**Answer:** c) Western Maharashtra

50. Which meteorological factor most influences seed germination?

a) Light

b) Temperature

c) Humidity

d) Wind speed

**Answer:** b) Temperature

51. The process of hardening plants to withstand cold weather is:

a) Vernalization

b) Stratification

c) Chilling

d) Acclimatization

**Answer:** a) Vernalization

52. Photosynthesis is most efficient in:

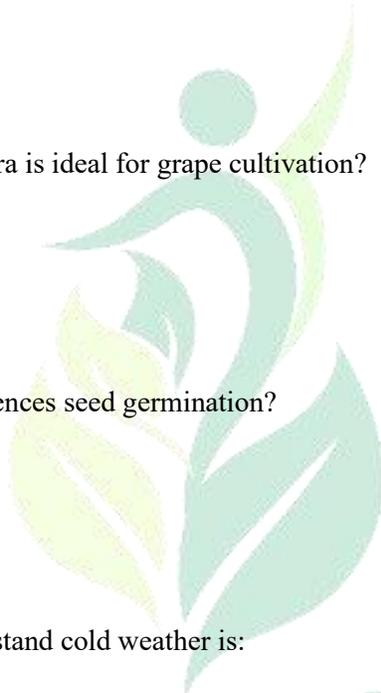
a) C3 plants

b) C4 plants

c) CAM plants

d) Leguminous plants

**Answer:** b) C4 plants



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