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Topic-Irrigation

1. Which irrigation method is most suitable for row crops and vegetables with infiltration rates between 0.5-2.5 cm/hour?

- A) Flood irrigation
- B) Check-basin irrigation
- C) Furrow irrigation
- D) Sprinkler irrigation
- E) Drip irrigation

Correct Answer: C) Furrow irrigation

- 2. Consider the following statements about water use efficiency:
 - 1) Crop water use efficiency is the ratio of crop yield to evapo-transpiration.
 - 2) Field water use efficiency includes total water used in the field.

Which of these statements is/are correct?

- A) Only 1
- B) Only 2
- C) Both 1 and 2
- D) Neither 1 nor 2
- E) None of the above

Correct Answer: C) Both 1 and 2

3. What is the primary purpose of agricultural drainage in crop production?

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- A) To increase soil salinity
- B) To remove excess water to create favourable soil conditions
- C) To enhance deep percolation losses
- D) To reduce soil fertility
- E) To promote weed growth

Correct Answer: B) To remove excess water to create favourable soil conditions

4. The practice of growing crops in passages formed by trees to enhance soil fertility is known as:

- A) Avenue cropping
- B) Alley cropping
- C) Border cropping
- D) Cover cropping
- E) Paired row cropping

Correct Answer: B) Alley cropping

- 5. Match the following irrigation methods with their suitable soil types:
 - 1) Check-basin a) Sandy loam soils
 - 2) Furrow b) Medium to heavy texture soils
 - 3) Sub-surface c) Uniform surface soils
 - A) 1-a, 2-b, 3-c
 - B) 1-c, 2-b, 3-a
 - C) 1-b, 2-c, 3-a
 - D) 1-c, 2-a, 3-b
 - E) 1-b, 2-a, 3-c

Correct Answer: B) 1-c, 2-b, 3-a

6. In the context of irrigation efficiency, what is measured at the point of diversion?

- A) Farm irrigation efficiency
- B) Field irrigation efficiency
- C) Project irrigation efficiency
- D) Crop water use efficiency
- E) Consumptive use efficiency

Correct Answer: C) Project irrigation efficiency

7. Which of the following crops is an example of a trap crop used to attract soil-borne pests like Striga?

- A) Sorghum
- B) Groundnut
- C) Wheat
- D) Sugarcane
- E) Potato

Correct Answer: A) Sorghum

- 8. The broad bed and furrow system is widely practiced for which crop in clay soils?
 - A) Wheat
 - B) Groundnut
 - C) Rice
 - D) Sugarcane
 - E) Cotton
 - Correct Answer: B) Groundnut

9. Which irrigation method involves the intermittent application of water to minimize deep percolation and runoff losses?

- A) Drip irrigation
- B) Surge irrigation
- C) Sprinkler irrigation
- D) Flood irrigation
- E) Cablegation

Correct Answer: B) Surge irrigation

10. What is the typical water saving percentage achieved by drip irrigation compared to surface irrigation methods?

- A) 10-20%
- B) 25-50%
- C) 50-70%
- D) 70-90%
- E) None of the above

Correct Answer: C) 50-70%

11. Which of the following is NOT a characteristic of waterlogging in agricultural fields?

- A) Reduced oxygen diffusion rate
- B) Increased denitrification losses
- C) Enhanced soil fertility
- D) Reduction of sulfates to sulfides
- E) Toxicity in submerged rice
- Correct Answer: C) Enhanced soil fertility

12. The first irrigation applied to crops is referred to as:

- A) Drip watering
- B) Kor watering
- C) Surge watering
- D) Border watering
- E) Check watering
- Correct Answer: B) Kor watering
- 13. Which irrigation method is best suited for undulating topography and sandy soils?

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- A) Flood irrigation
- B) Check-basin irrigation

- C) Sprinkler irrigation
- D) Furrow irrigation
- E) Sub-surface irrigation
- Correct Answer: C) Sprinkler irrigation

14. In the IW/CPE approach for irrigation scheduling, a lower ratio indicates:

- A) Higher water use efficiency
- B) Greater soil moisture stress
- C) Reduced crop yield
- D) Increased consumptive use
- E) Improved soil fertility

Correct Answer: B) Greater soil moisture stress

15. Which of the following crops is an example of a nurse crop that provides shade or support to another crop?

- A) Mustard with peas
- B) Groundnut
- C) Sugarcane
- D) Cotton
- E) Sweet potato

Correct Answer: A) Mustard with peas

16. What is the typical discharge rate of water per dripper in drip irrigation systems?

- A) 10-20 lit/hr
- B) 1-4 lit/hr
- C) 5-10 lit/hr
- D) 20-30 lit/hr
- E) None of the above

Correct Answer: B) 1-4 lit/hr

17. The term used for crops grown to preserve in pits for feeding livestock during lean months is:

- A) Soiling crops
- B) Silage crops
- C) Cover crops
- D) Cash crops
- E) Trap crops

Correct Answer: B) Silage crops

18. Which of the following is an example of a restorative crop that enriches soil fertility?

- A) Maize
- B) Legumes
- C) Sugarcane
- D) Cotton
- E) Rice
- Correct Answer: B) Legumes

19. In sub-surface drainage, what is the primary purpose of tile drains?

- A) To increase soil salinity
- B) To lower the groundwater level below the root zone
- C) To enhance surface runoff
- D) To promote waterlogging
- E) To reduce soil aeration

Correct Answer: B) To lower the groundwater level below the root zone

20. Which of the following irrigation methods is most commonly used in India for wetland rice?

- A) Furrow irrigation
- B) Flood irrigation
- C) Sprinkler irrigation
- D) Drip irrigation
- E) Surge irrigation

Correct Answer: B) Flood irrigation

21. The practice of taking a second crop from the stubble of a previous crop is known as:

- A) Relay cropping
- B) Ratooning
- C) Skip cropping
- D) Paired row cropping
- E) Alley cropping

Correct Answer: B) Ratooning

22. Which of the following crops is NOT suitable for sprinkler irrigation?

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- A) Wheat
- B) Groundnut
- C) Rice
- D) Pearl millet
- E) Vegetables
- Correct Answer: C) Rice

23. The critical stage approach in irrigation scheduling focuses on:

- A) Soil moisture depletion levels
- B) Climatic conditions
- C) Stages of crop growth most sensitive to water shortage
- D) Transpiration ratio

E) Water use efficiency

Correct Answer: C) Stages of crop growth most sensitive to water shortage

24. Which of the following is a characteristic of border strip irrigation?

- A) Suitable for sandy soils
- B) Ideal for slopes of 0.5-1%
- C) Used for widely spaced crops
- D) Involves deep furrows
- E) Requires high water pressure
- Correct Answer: B) Ideal for slopes of 0.5-1%
- 25. What is the primary source of water loss in plants during consumptive use?
 - A) Metabolic activities
 - B) Evapo-transpiration
 - C) Deep percolation
 - D) Surface runoff
 - E) Capillary action

Correct Answer: B) Evapo-transpiration

26. Which crop is an example of a cash crop grown primarily for sale?

- A) Berseem
- B) Groundnut
- C) Cotton
- D) Sweet potato
- E) Lobia

Correct Answer: C) Cotton

27. The discharge relationship for suppressed weirs is given by:

A) Q = 0.0138 H^2

- B) Q = 0.0184 LH^3/2
- C) Q = CLH
- D) Q = 0.0138 H^3/2
- E) None of the above

Correct Answer: B) Q = 0.0184 LH³/2

28. Which of the following is a limitation of the check-basin irrigation method?

- A) It is unsuitable for close-growing crops
- B) It requires high water pressure
- C) It occupies a large area due to ridges
- D) It is ideal for sandy soils
- E) It promotes deep percolation

Correct Answer: C) It occupies a large area due to ridges

29. Crops grown along farm roads and fences, such as Arhar or Sisal, are known as:

- A) Cover crops
- B) Avenue crops
- C) Trap crops
- D) Nurse crops
- E) Silage crops

Correct Answer: B) Avenue crops

30. In the context of waterlogging, what is the primary cause of Akiochi disease in rice?

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- A) Excess nitrogen
- B) Toxicity of H2S
- C) Reduced oxygen diffusion
- D) Increased soil salinity

E) Denitrification

Correct Answer: B) Toxicity of H2S

- 31. Which irrigation method is most suitable for widely spaced crops like orchard trees?
 - A) Flood irrigation
 - B) Check-basin irrigation
 - C) Drip irrigation
 - D) Border strip irrigation
 - E) Surge irrigation
 - Correct Answer: C) Drip irrigation
- 32. The transpiration ratio approach in irrigation scheduling is also known as:
 - A) Soil moisture index approach
 - B) Absolute approach
 - C) Critical stage approach
 - D) Consumptive use approach
 - E) Field efficiency approach

Correct Answer: B) Absolute approach

33. Which of the following crops is an example of a cole crop?

- A) Potato
- B) Cabbage
- C) Sugarcane
- D) Cotton
- E) Sorghum

Correct Answer: B) Cabbage

34. The 90° V-notch weir is primarily used for:

A) Measuring large water flows

- B) Measuring small water flows
- C) Controlling deep percolation
- D) Enhancing soil moisture retention
- E) Reducing runoff losses
- Correct Answer: B) Measuring small water flows

35. Which of the following is a characteristic of smother crops?

- A) They provide shade to other crops
- B) They have a large canopy and quick-growing ability
- C) They are grown for silage
- D) They are exhaustive to the soil
- E) They are grown for grazing

Correct Answer: B) They have a large canopy and quick-growing ability

36. In the soil moisture deficit approach, what is the typical depletion level for droughtresistant crops?

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- A) 25%
- B) 50%
- C) 75%
- D) 10%
- E) 100%

37. Which of the following is NOT a benefit of sprinkler irrigation?

- A) Suitable for undulating topography
- B) Water saving of 25-50%
- C) Protection against frost

Correct Answer: B) 50%

D) High suitability for heavy clay soils

E) Increased irrigated area

Correct Answer: D) High suitability for heavy clay soils

38. The practice of growing crops a few days before harvesting a standing mature crop is known as:

- A) Ratooning
- B) Paira cropping
- C) Skip cropping
- D) Alley cropping
- E) Cover cropping

Correct Answer: B) Paira cropping

- 39. What is the typical slope range for furrow irrigation?
 - A) 0.5-1%
 - B) 0.2-0.5%
 - C) 1-3%
 - D) 3-7%
 - E) 7-10%

Correct Answer: B) 0.2-0.5%

40. Which of the following crops is an example of an energy crop used for ethanol production?

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- A) Groundnut
- B) Sugarcane
- C) Berseem
- D) Lobia
- E) Chickpea

Correct Answer: B) Sugarcane

- 41. The Parshall flume is a combination of:
 - A) Weir and sprinkler
 - B) Weir and submerged orifice
 - C) Orifice and dripper
 - D) Nozzle and furrow
 - E) Pump and emitter

Correct Answer: B) Weir and submerged orifice

42. Which of the following is a demerit of waterlogging in agricultural fields?

- A) Increased oxygen diffusion rate
- B) Enhanced crop yield
- C) Increased denitrification losses
- D) Improved soil aeration
- E) Reduced soil toxicity

Correct Answer: C) Increased denitrification losses

43. Crops that compete with each other and are unsuitable for intercropping are known as:

- A) Complementary crops
- B) Competitive crops
- C) Supplementary crops
- D) Restorative crops
- E) Cover crops
- Correct Answer: B) Competitive crops
- 44. The ring basin irrigation method is most suitable for:
 - A) Close-growing crops
 - B) Fruit crops

- C) Sandy soils
- D) Steep slopes
- E) Wetland rice
- Correct Answer: B) Fruit crops
- 45. Which of the following is a benefit of drip irrigation in areas with water scarcity?
 - A) High water loss due to evaporation
 - B) Suitable for heavy clay soils
 - C) Water saving of 50-70%
 - D) Increased labour requirement
 - E) Reduced crop yield
 - Correct Answer: C) Water saving of 50-70%
- 46. The practice of leaving one line unsown in a regular row series is known as:
 - A) Paired row cropping
 - B) Skip cropping
 - C) Ratooning
 - D) Alley cropping
 - E) Border cropping

Correct Answer: B) Skip cropping

- 47. Which irrigation method is practiced in Kerala for coconut gardens?
 - A) Sprinkler irrigation
 - B) Sub-surface irrigation
 - C) Flood irrigation
 - D) Border strip irrigation
 - E) Surge irrigation
 - Correct Answer: B) Sub-surface irrigation

48. Crops grown to market fresh, such as bhindi and spinach, are known as:

- A) Ware crops
- B) Truck crops
- C) Silage crops
- D) Soiling crops
- E) Cover crops

Correct Answer: B) Truck crops

49. In the context of irrigation, what is the typical sprinkler pressure range?

- A) 1-2 kg/cm²
- B) 2.5-4.5 kg/cm²
- C) 5-7 kg/cm²
- D) 7-10 kg/cm²
- E) 0.5-1 kg/cm²

Correct Answer: B) 2.5-4.5 kg/cm²

50. Which of the following crops is an example of a cleaning crop that helps maintain field hygiene?

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- A) Rice
- B) Potato
- C) Cotton
- D) Jute
- E) Sugarcane

- 51. The vertical drainage method is commonly practiced in:
 - A) Wheat fields

Correct Answer: B) Potato

- B) Coffee gardens
- C) Rice paddies
- D) Cotton fields
- E) Sugarcane plantations
- Correct Answer: B) Coffee gardens
- 52. Which of the following is a characteristic of complementary crops in intercropping?
 - A) They compete for resources
 - B) They benefit each other
 - C) They exhaust the soil
 - D) They are grown for silage
 - E) They are used as trap crops

Correct Answer: B) They benefit each other

- 53. The mole drainage system is most suitable for:
 - A) Sandy soils
 - B) Clay soils
 - C) Loamy soils
 - D) Rocky soils
 - E) Saline soils
 - Correct Answer: B) Clay soils

54. Which of the following is NOT a characteristic of cover crops?

- A) They reduce soil erosion
- B) They conserve soil moisture
- C) They are grown for hard cash
- D) They protect soil from wind
- E) They include crops like lobia

Correct Answer: C) They are grown for hard cash

55. The discharge rate for sprinkler irrigation systems is typically:

- A) Less than 500 lit/hr
- B) More than 1000 lit/hr
- C) 500-1000 lit/hr
- D) 100-500 lit/hr
- E) None of the above

Correct Answer: B) More than 1000 lit/hr

56. Which of the following crops is an example of a fouling crop that allows intensive weed infestation?

- A) Potato
- B) Direct-seeded upland rice
- C) Wheat
- D) Groundnut
- E) Berseem

Correct Answer: B) Direct-seeded upland rice

57. The practice of sowing mustard with berseem to increase yield in the first cutting is known as:

- A) Augmenting cropping
- B) Complementary cropping
- C) Nurse cropping
- D) Trap cropping
- E) Cover cropping

Correct Answer: A) Augmenting cropping

58. In the context of irrigation, what does the term "consumptive use" include?

A) Only evapo-transpiration

B) Evapo-transpiration and metabolic water use

- C) Only surface runoff
- D) Deep percolation and runoff
- E) Soil moisture retention

Correct Answer: B) Evapo-transpiration and metabolic water use

59. Which of the following is a suitable slope for the border strip irrigation method when growing pasture crops?

- A) Up to 3%
- B) Up to 7%
- C) Up to 1%
- D) Up to 10%
- E) Up to 0.5%

Correct Answer: B) Up to 7%

60. Crops grown for immediate or future feeding to livestock, such as berseem, are known as:

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- A) Silage crops
- B) Soiling crops
- C) Truck crops
- D) Ware crops
- E) Energy crops

Correct Answer: B) Soiling crops