

1. What is the main goal of crop variety improvement?

- A. Increase shelf life of produce
- B. Increase crop yield and resistance
- C. Reduce harvest time only
- D. Reduce labour requirements (B)

**Explanation:** Crop variety improvement aims to increase yield, quality, and resistance to biotic and abiotic factors.

2. What is hybridisation in crops?

- A. Growing crops without fertilizers
- B. Crossing genetically different plants
- C. Applying pesticides before harvest
- D. Using manure instead of fertilizers (B)

**Explanation:** Hybridisation refers to crossing between genetically dissimilar plants to get desired traits.

3. Which of the following is a macro-nutrient for plants?

- A. Zinc
- B. Copper
- C. Magnesium
- D. Molybdenum (C)

**Explanation:** Magnesium is a macro-nutrient required in large quantities by plants.

4. Which cropping method involves growing different crops in a row pattern?

- A. Crop rotation
- B. Intercropping
- C. Mixed cropping
- D. Organic farming (B)

**Explanation:** In intercropping, crops are grown in a definite row pattern to maximise nutrient usage.

5. What is the purpose of green manure?

- A. To kill weeds
- B. To control pests
- C. To enrich soil with nitrogen and phosphorus
- D. To increase shelf life of grains (C)

**Explanation:** Green manure is obtained by ploughing green plants into soil to enhance nutrient content.

6. Which irrigation method involves storing runoff water in small reservoirs?

- A. Canal
- B. Tube well
- C. River lift system
- D. Tank (D)

**Explanation:** Tanks intercept and store runoff from small catchment areas for irrigation.

7. What do broilers primarily provide?

- A. Eggs
- B. Milk
- C. Meat
- D. Wax (C)

**Explanation:** Broilers are poultry birds raised specifically for meat production.

8. Which bee variety is most commonly used for commercial honey production?

- A. Apis dorsata
- B. Apis cerana indica
- C. Apis mellifera
- D. Apis florae (C)

**Explanation:** Apis mellifera (Italian bee) is preferred for its high honey collection and low stinging tendency.

9. What is the main advantage of composite fish culture?

- A. Easy to breed
- B. No water needed
- C. Efficient use of all pond zones
- D. Reduced cost of seeds (C)

**Explanation:** Different species feed in different zones of the pond, utilising resources efficiently.

10. What is pasturage in bee-keeping?

- A. Type of honeycomb used
- B. Flowers available to bees
- C. Shape of the beehive
- D. Sugar content in honey (B)

**Explanation:** Pasturage refers to the variety and availability of flowers which affect the quantity and taste of honey.