

## CH-1 CROP PRODUCTION AND MANAGEMENT

## I SHORT ANSWER TYPE QUESTIONS:

Q1 What will happen if paddy is sown in winter season?  
(TB Q4)

Ans \* Paddy is a Kharif crop, which is sown in rainy season during the months from June/July to September/October.

\* It requires lot of water for its growth.

\* During winter, large amount of water is not available.

\* Hence, due to unavailability of sufficient water and unfavourable climatic conditions, paddy cannot grow properly, and both the quality and quantity of crops would be poor.

Q2 In summer, the frequency of water is higher. Why is it so?

Ans In summer, the frequency of watering is higher due to the increased rate of evaporation of water from the soil and the leaves.

Q3 What is the right time to spray weedicides?

Ans The weedicides are sprayed during the vegetative growth of weeds before flowering and seed formation.



Q.4. What is animal husbandry?

Ans. Animal husbandry is the branch of agriculture where animals are reared, bred and raised in large scale for meat, fibre, eggs, milk and other food products.

II Long Answer type Questions:

Q1. What is drip irrigation method? Why is it considered advantageous over other methods? (TB Q.4)

Ans. In drip irrigation system, water is released drop-by-drop just near the roots of plants. That's why drip irrigation method is also called drop-by-drop irrigation. This method is used for fruit and flower plants.

Advantages of Drip Irrigation System:

\* Water is supplied close to plants so that only part of the soil in which the roots grow is wetted, unlike surface and sprinkler irrigation, which involves wetting the whole soil profile.

\* Water is distributed drop by drop to the active root zone of plants. Thus nutrients and other required substances for growth of the plants delivered directly into the root zone of the plant.

\* This method might be the most water supply efficient way of irrigation because runoff and evaporation reduced significantly unlike other



## methods of irrigation.

\* This is the most economical method of irrigation. It is highly suitable for water-deficient regions.

### III HIGHER ORDER THINKING SKILLS:

Q1. What is organic farming? Why is it popular?

Ans: Organic Farming:

\* It can be defined as a cultivation method where no chemical fertilizers, synthetic pesticides or synthetic compounds are used.

\* It promotes sustainable farming practice by using natural fertilizers, biological pest control made from plant and animal waste, organic manure, etc.

Popularity:

\* Food quality and safety are two vital factors that have attained constant attention in common people.

\* Consumers are requested for safer and better foods that are produced through more ecologically and authentically by local systems.

\* Organically grown food products are believed to meet their demand.

Q2. What are the drawbacks of seeds being unevenly distributed in a field?

Ans \* The uneven distribution of the seeds may result in crowding of the seeds at one place which



leads to the competition for water and minerals, so many of the seeds will not be able to germinate.

\* If seeds are distributed unevenly then the number of seeds might be very less at some places. This affects the production of crops.

Q3. Why is the use of biopesticides encouraged over chemical pesticides?

Ans \* Chemicals in chemical pesticides are extremely toxic and are harmful to the living beings and environment.

\* They deteriorate the quality of the soil in long run.

\* When they runoff with the surface water they cause pollution and eutrophication of water bodies.

\* If chemicals percolate in the ground, they contaminate the underground water.

Hence biopesticides are preferred over chemical pesticides as they do not contaminate the environment.

Q4. What is mulching and its advantages?

Ans Mulching is the practice of adding composted material to the garden beds to help with weed suppression, plant fertility, water retention etc.

Advantages: When installed properly, mulches can

\* Protect plants from severe winter condition.

\* Slow down the process of evaporation and maintain soil moisture

\* Limit weed growth and prevent plant diseases.

\* Regulate ground temperature.

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## II SHORT ANSWER TYPE QUESTIONS:

Q 1 - Pg. no. 15

Q 2 - Pg. no. 19

Q 3 - Pg. no. 23

Q 5 - Pg. no. 21

## III LONG ANSWER TYPE QUESTIONS:

Q1 - Pg. no. 10

Q2 - Pg. no. 14

Q3 - Pg. no. 15

Q5 - Pg. no. 19