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## **NCERT Solutions for Class 9 Subjectwise**

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Explain any method of crop production which ensures high yield.

One of the method of crop production that ensures high yield is intercropping. This method is beneficial because more than two types of crops having different nutrient requirement can be grown in a definite pattern of land. Intercropping helps in preventing pests and avoid the spread of diseases throughout the field. So with crop rotation, soil fertility is increased, reduces soil erosion is reduced, and soil depletion is prevented.

### Why are manure and fertilizers used in fields?

Manure is organic matter derived from animal faeces and plant waste. When the plants are cultivated continuously on a field, the soil gradually loses its nutrient and eventually gets depleted. Thus, manures and fertilizers are used to provide nutrient to the soil due to which the crop yield is enhanced.

### What are the advantages of inter-cropping and crop rotation?

Intercropping is a cropping practice that involves growing two or more crops in proximity. This gives higher income than the sole cropping. Intercropping maintains the soil fertility. It reduces the soil runoff.

Crop rotation is the process of growing different crop in succession on a piece of land to avoid decrease in the fertility of the soil. Crop rotation gives various nutrients to the soil. Rotation of crops help in the controlling growth of weeds and pests.

What is genetic manipulation? How is it useful in agricultural practices?

Genetic manipulation is a process where the desired genes are isolated from one organism (plant) and transferred to the other organism (plant) by using the hybridization technique. Genetic manipulations help in obtaining traits which are not possible naturally such as dwarfness in cereals, tall and profuse branching in fodder crops. It helps in obtaining higher yield, resistance to pests, less maturity period, resistance to severe environmental conditions such as droughts, high alkalinity, floods etc.

### How do storage grain losses occur?

Biotic and abiotic factors both play an important role in the spoilage of the stored seeds. Biotic factors such as insects, rodents and abiotic factors such as moisture present in the food grains due to improper drying, humidity and temperature can affect the grains by causing discolouration, loss of ability to germinate and degradation.

How do good animal husbandry practices benefit farmers?

Animal husbandry is care and management of the farm animals by humans, in which the cattle are reared in such a way that the qualities that are beneficial to human beings are improved. Therefore, by using practices of animal husbandry, better breeds of draught animals are produced. Draught animals are animals that are used for doing labour work in the field such as irrigation, tilling etc. Better breed of milch animals will provide with high quality of milk, that will ultimately fetch a high market value.

What are the benefits of cattle farming?

### Solution

(1) Milch animals can be reared for the production of milk. Milk is considered as a nutritious food and has got a demand in the market.

(3) Wastes from the cattle can be used to enrich the soil as well as can be used in the biogas production.

For increasing production, what is common in poultry, fisheries and bee-keeping?

Production of poultry, fisheries and bee keeping can be increased by adopting new scientific ways of management. This includes providing proper diet, keeping the area clear and disease-free, applying various breeding techniques like cross-breeding to produce hybrids which are of better quality and can fetch a high market value.

How do you differentiate between capture fishing, mariculture and aquaculture?

1. Capture fishing is one of the most common forms of fishing. It is a type of fishing where the fishes are obtained from the natural resources like river, lake or seas.

2. Mariculture is the cultivation of aquatic, marine life forms for food in the open ocean, ponds, or raceways that are filled with seawater

3. Aquaculture refers to the breeding, rearing, and harvesting of plants and animals in all types of water environments including ponds, rivers, lakes, and the ocean

State whether the given statement is true or false. If true, write the reasons.

Rows of trees planted in the coastal areas to check the wind movement are called as intercropping.

False

Shelter belts is the term used to describe rows of trees planted in the coastal areas to check the wind movement.

Intercropping is a planting method of growing two or more crops in proximity to protect the soil from rain wash.

If your family owned a dairy farm, what measures would you undertake to improve the quality and quantity of milk production?

To improve the quality and quantity of the milk production the first step to be taken is selecting a good and healthy cattle. Hybrid cattle should be preferred to wild ones as the have genes responsible for of high yields of milk. They are also disease resistant. In order to make sure the cattle are healthy the surrounding environment should also be kept clean and tidy and ensuring that the animals are properly fed will also improve the quality and quantity of milk.

What is meant by the term 'breed'? What are the objectives of animal breeding?

Breed refers to a group of animals within a species that exhibit same ancestral characters like size, physique etc. Objectives of animal breeding are the production of disease resistant high yielding varieties of animals.

## What is apiculture? How is it important in our lives?

Apiculture is rearing of honeybees for honey and wax. Honey is used as home remedy for various infections as well as a food source; wax is used in polishing and cosmetic products. Bee pollens are used as suppliment in the form of capsules. Apiculture has served as earning source for many people.