#### SCIENCE 8

- Manure and fertilisers are the substances which are added to the soil to provide nutrients to ensure the healthy growth of plants.
- Methods of irrigation can be broadly categorised into traditional and modern methods.
- The removal of undesirable plants which grow along with the crop is called weeding.
- The process of cutting of crops when it is mature is known as harvesting.
- Rearing animals on large scale for food, shelter and care is called animal husbandry.

### KEYWORDS

Agriculture Science or practice of farming, including the rearing of crops and animals
 Apiculture
 The practice of rearing honeybee for honey
 Crops Plants of the same kind when grown on a large scale for food, clothing etc.
 Fertilisers Chemical substances which are rich in a particular nutrient added to the soil to increase its fertility
 Irrigation The process of artificial application of water to the crops at different intervals
 Levelling The process of breaking big pieces of soil with wooden or iron planks
 Manure An organic substance obtained from the decomposition of plant and animal wastes
 Pesticides The chemicals used for killing or destroying the animals which damage the crops
 Ploughing (tilling) The process of loosening and turning of the soil
 Weedicides The chemicals used for weeding

### **Practice Time**

#### **Objective Type Questions**

#### A. Fill in the blanks.

- 1. The science or practice of farming, including the rearing of crops and animals is known as agriculture
- 2. Plants of the same kind when grown on a large scale for food, clothing etc., are called \_\_\_\_\_\_.
- 3. The process of loosening and turning of the soil is known as bloughing.
- 4. Sowing can be done manually or with the help of an implement called seed drull.
- 5. feehliser are chemical substances which are rich in a particular nutrient.
- 6. The method for replenishing the soil nutrients is manwang.
- 7. The animals which damage crops are known as bust and these can be destroyed by chemicals called besticides.
- 8. The practice of rearing honeybees for honey is known as appendive.
- 9. The \_\_\_\_\_\_ irrigation method is the most expensive but also the most efficient.

## B. Write 'T' for true and 'F' for false.

- 1. Agriculture does not include growing of vegetables and fruits.
- 2. Humans settled down to live in one place only after they learnt to grow crops.

E

T

3	3. Ploughing causes soil erosion.	F-9
1	Denoral States	III
-1	Depending upon the rainfall the crops can be classified as kharif and rabi crops.	E
. 5	It is necessary to have lots of crumbs in the soil for the proper growth of plants.	E
6	Modern methods of initial and the son for the proper growth or plants.	
7	. Modern methods of irrigation include sprinkler and drip irrigation.	
/	. The process of cutting of crops when it is mature is known as wingowing	F
8		
	harvesting	E

## C. Match the following.

Column A		Co	lumn B
<ol> <li>kharif crops</li> </ol>			harvesting
2. broadcasting	4		silos
3. sickle	5	c.	honeybees
4. grains			rainy season
5. apiculture			scattering seeds

### D. Tick (✓) the correct answer.

1. Which of the following is used for sowing?

a. Plough

b. Sickle

c. Seed drill

d. None of these

2. Which of the following is not a traditional method for irrigation?

b. Canals

c. Rahat

d Sprinklers

3. Which of the following is not true about manure?

a. It provides humus to the soil.

b. It does not cause water pollution.

C. It is rich in one particular nutrient.

d. None of these

4. The process of cutting the crop when it is ready is called:

A. Harvesting

b. Storing

c. Threshing

d. Winnowing

5. Which of the following is not a method of replenishing the soil nutrients?

a. Crop rotation

b. Adding manure

c. Adding fertilisers delevelling

### Very Short-Answer Questions

### E. Answer in few words/one line.

- 1. Write the steps of agriculture in the correct order.
- 2. Name the instruments used for sowing seeds.
- 3. How can pests be controlled?
- 4. Name the instruments used for weeding and harvesting.
- 5. What are fertilisers?
- 6. What is irrigation?
- 7. Mention two ways by which weeding can be done.

#### SCIENCE 8

#### Short-Answer Questions

- F. Differentiate between the following pairs.
  - 1. Rabi and kharif crops

- 2. Weedicides and pesticides
- 3. Sprinkler system and drip irrigation
- 4. Fertiliser and manure
- G. Define each of the following in one sentence.
  - 1. Agriculture

- 2. Animal husbandry
- 3. Crop rotation

X Irrigation

X Fertiliser

#### H. Answer the following in brief.

- 1. What are organic foods?
- 2. Which crop replenishes nitrogen and how?
- 3. What is animal husbandry? What facilities are provided to farm animals?

#### Long-Answer Questions

- I. Answer the following in detail.
  - 1. What are agricultural practices? List them in the correct sequence.
  - 2. Discuss how the soil is prepared for sowing seeds.
  - 3. What is harvesting? What precautions should be taken while storing harvested grains?
  - 4. What is manuring? List all the differences between fertilisers and manures.
  - 5. Discuss the traditional and modern methods of irrigation in brief, with examples.
  - What is the difference between rabi and kharif crops? Give one example each.

#### J. HOTS

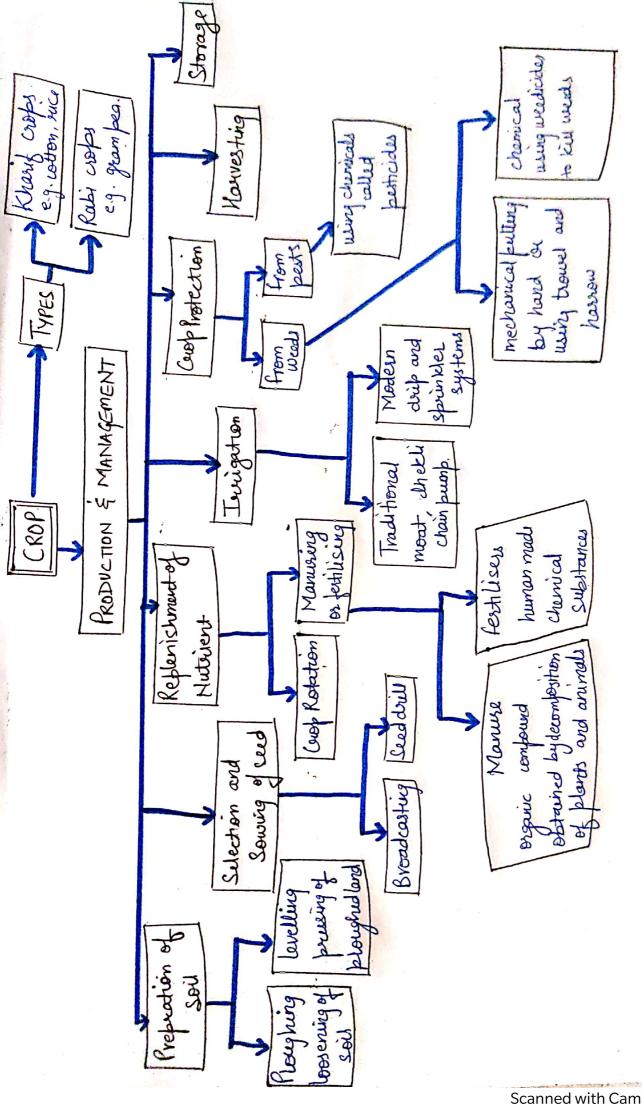
- 1. Despite favourable climatic conditions, a farmer's crop failed to give good yield. Give the possible reasons for this.
- 2. As the population increases, the demand for crops also increases. What are the ways in which we can increase the production of crops?
- 3. How does increasing crop production affect the environment?
- 4. Sprinklers and drip irrigation are effective ways to conserve water. Yet they are not very popular in India. What could be the reason behind it?

## **Assignments**

A. Read the passage. Answer the questions that follow.

#### Crop Management

One of the first considerations in crop production management is of the determination of the type of crop to be planted in the designated land. The reason why this is important is because



E Answer in few words / one line

1. Write the steps of agriculture in the correct order.

Aris Steps included in agriculture are

1. Soil prepreation

2. Selection and sowing of seeds

3. Adding manure and fertilises

4. Irrigation

5. Crop Protection

6. Harvesting

7. Storage.

2. Mame the instruments used for sowing seeds. Aus Instrument used for sowing seeds is seed drill

3. Now can bests be controlled.

Aws. Pests are controlled by chemicals Falled pesticides.

4. Name the instrument used for weeding and houvesting Aus Instrument used for weeding: Trowel and howow Instrument used for houvesting: Sickle

5. What are fertilisers?

Aus fertilisers are human-made chemical substances ushich are reich in one or more nutrients.

6. What is vingation?

Aus The process of supplying water to the crops at different intervals is known as irrigation

7. Mertion two ways by which weeding can be done.

Ans 1. Weeding can be done manually using implements such as
trowel, how or havorow

2 Weeding can be done using chemicals called weedicides.

- F. Differentiate between the following pavis
  1. Rabi and known cuop.

## Knowl Geop

- 1. They are sown in rainy season
- 2. They are howested in October.
- 3. They depend on monsoon rains for growth
- 4- ex- rice, maize.

## 2 Weedicides & Pesticides

# Weediades

- 1. Chemicals used to remove weeds are called weedicides
- 2. It havens the crop if too much sprayed.
- 3. ex- 2,4-b, metachlor
- 3. Sprinkler and Drup irrigation Sprinkler System
- 1. Water is sprayed using Sprankler in all direction in sprinkler system
- 2. There may be loss of water
  - 3 An area of a circle is welled which covers number of plants
  - spray gurs and nozzles are used in this system

- 1. They are sown in winter season
- 2. They we howested in
- 3. They don't depend upon monsoon viains for growth 4. ex- wheat, pea.

## lesticides.

- 1. Chemicals used to kill pests which damage verbs are called pesticides.
- 2. It doesn't harm the crop
- 3. ex-malathion, BHC.

## Drup Ingation

- 1. In this system pipes as holes allow water to fall drop by drop just at position of roots
- 2. There is no wastage of waterat all.
- 3. Only root is wetted in this
- 4. Deupping valves are present in this sustem
  Scanned with CamScanner

## 9. Fertiliser and Manure

## Fertiliser

- 1 Fertiliser are chimical compound made using chemicals
  - 2. They are prepared in factories
- 3. They do not provide any humus to the soil
- 4. They are costly
- 5. These are such in plant nutruents

## Manure.

- 1. Manure are organic compound obtained from decomposition of plants and arrinal waste by
- 2. They are prepared in field
- 3. They perovide a bot of humus to the soil
- 4. They are not costly so. They are relatively less rach in plant nutrients
- G. Define each of the following in one sentence
- 1. Agriculture The science or practice of farming, including the reasing of crops and animals is known as agriculture.
- 2. Animal husbanday- Reaving animals on large scale for food and other useful things is called animal husbandry.
- 3. Crop rotation. It is the process of growing two or more crops on the same land alternatively to replenish nutru ents
- M. Answer the following in brief
- 1. What are organic foods ?
- our Organic food are food Hems grown and processed naturally in safe soil and are not genetically modified.
- 2 which crop replenish nitrogen and how? thus beguninous viops like peas or gram replenish nitrogen due to presence of Khizobium bacteria on their roots. which

convert atmosphuic nitrogen into simpler nitrogen compounds which can be easily absorbed by the plants.

3. What is animal husbandry? what facilities are provided to farm animals on large scale for food and other useful things is called animal husbandry.

Farm animals are provided with shelter, fooder on time vaccination and are kept clean

I. Answer the following in detail

1. What we agricultural practices ? list them in covact

siquence.

Aux The activities in a particular sequence undertaken by farmers over a period of time to cultivate good crop are called agricultural practices.

Agricultural practices in sequence are as follow

1. Preparation of Soil

2. Selection and Sowing of seed

- 3. Adding manure and fertiliser
- 4. Irvigation
- s. Crop protection
- 6. Howesting

7. Storage

2. Discuss how soil is prepared for sowing seeds.

Thus Soil is prepared by ploughing and levelling

a. Ploughing - It is the process of loosening and

thering of the Soil done with the help of plough or

tractor

b) levelling! It is process of breaking big pieces of After ploughing and levelling soil is ready to be somen

3. What is harvesting? what precontions should be taken

while storing howested grain?
Ans The powers of cutting of corops when it is ready is

known as harvesting.

while storing harvested crops it must be checked that crop is safe from moisture, insects, reats and microorganism microorganism

4. What is marwing? list all difference between fertiliser and manure

Aws The process of replenishing the soil with nurients using manure and feetiliser is called manuring

for difference refer to last 4 of Question f.

5. Discuss the traditional and modern methods of irrigation in bruef with examples.

And Traditional method of bring afron used cattle and human labour to lift water from wells, lakes and canals. These include chain pump, pulley system, dhekli etc.

Modern method of origation include

a) spounkler System: In this system water is sprayed using spointler that rotate in all directions to b) Drup Irrigation - In this system holes in piper allow water to fall drop by drop just at the location position of roots, and no water is wasted at all.

and the state of t

I do not be a few to the second of the secon

at the state of the

mile.