

1. Select the correct word from the following list and fill in the blanks.

float, water, crop, nutrients, preparation

- (a) The same kind of plants grown and cultivated on a large scale at a place is called _____.
- (b) The first step before growing crops is _____ of the soil.
- (c) Damaged seeds would _____ on top of water.
- (d) For growing a crop, sufficient sunlight and _____ and _____ from the soil are essential.

- Sol.** (a) crop (b) preparation
(c) Fooot (d) Water, nutrients

2. Match items in column A with those in column B.

<i>Column A</i>	<i>Column B</i>
(i) Kharif crops	(a) Food for cattle
(ii) Rabi crops	(b) Urea and super phosphate
(iii) Chemical fertilisers	(c) Animal excreta, cow dung urine and plant waste
(iv) Organic manure	(d) Wheat, gram, pea
	(e) Paddy and maize

Sol.

<i>Column A</i>	<i>Column B</i>
(i) Kharif crops	(e) Paddy and maize
(ii) Rabi crops	(d) Wheat, gram, pea
(iii) Chemical fertilisers	(b) Urea and super phosphate
(iv) Organic manure	(c) Animal excreta, cow dung urine and plant waste

3. Give two examples of each.

- (a) Kharif crop (b) Rabi crop

- Sol.** (a) Maize and paddy (b) Wheat and pea

4. Write a paragraph in your own words on each of the following.

- (a) Preparation of soil (b) Sowing
(a) Weeding (b) Threshing

- Sol.** (a) **Preparation of soil:** The soil is prepared before sowing the seeds. The soil is loosened by tilling. It helps to increase the absorption of water and minerals. Loosened soil, helps in the addition of humus

to the soil. Tilling is done either by a plough or a tractor. It makes the soil fertile.

- (b) **Sowing:** After preparation of the soil, the seeds are sown. Healthy seeds are selected and sown by the help of funnel shaped tool or a seed drill. Seed drill places the seeds at equal distances.
- (a) **Weeding:** The unwanted plants which grow among the crops are called weeds. The weeds compete with the crop plants for food, space, etc. They can be removed manually or by mechanical tools. The chemicals which kill the weeds are called weedicides. 2,4-D is used to kill the weeds.
- (b) **Threshing:** After harvesting the crops, the grains are separated from the chaff by the process called threshing. The harvested crops along with the stalks are put into the thresher. After threshing, winnowing is done to remove the grains from chaff.

5. Explain how fertilisers are different from manure.

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<i>Manure</i>	<i>Fertiliser</i>
It is a natural/organic material formed due to the decomposition of cattle dung, vegetable or plant matter, etc.	It is an inorganic material.
Adds to the humus content of the soil.	It does not add any humus to the soil.
It can be prepared locally by the farmer.	It is made in the factories.
The nutrient content is less in manure as compared to fertilisers.	It is rich in nutrients like NPK (Nitrogen, Phosphorous and Potassium).

6. What is irrigation? Describe two methods of irrigation which conserve water.

Sol. Irrigation is the process of watering the crops.

The two methods of irrigation are:

- (a) **Sprinklers:** This process immitates the process of raining. Long prependicular pipes with holes at regular intervals are used when water is supplied it comes out through the rotating nozzles and sprinkles water in the field.
- (b) **Drip system:** It is of great use in the drier regions. Water is allowed to fall drop by drop at the source of watering. Water is not wasted as the water reaches the roots of each and every plants.

7. If wheat is sown in the kharif season, what would happen? Discuss.

Sol. Wheat crop does not require much water to grow. The seeds would get destroyed in excess water due to rainy season. So, it cannot be grown in kharif season.

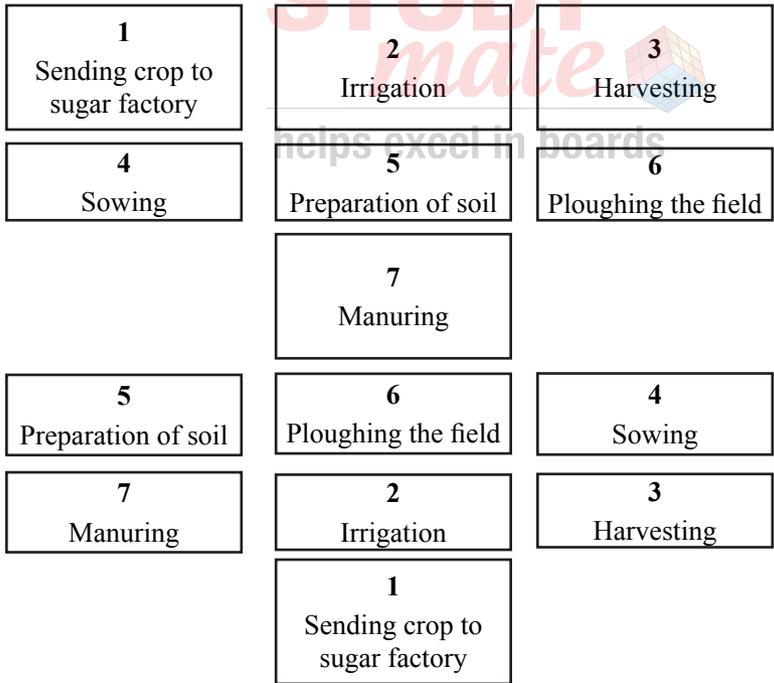
8. Explain how soil gets affected by the continuous plantation of crops in a field.

Sol. Harvesting crops again and again in the same field makes the soil unfertile. It does not give any time for the soil to replenish its nutrients back. Thus, healthy and good crops will not grow.

9. What are weeds? How can we control them?

Sol. The unwanted plants that grow with the crop plants are called weeds. They compete with normal crops for food, space, etc. The process of controlling the weeds is called weeding. Weeding is done manually by a 'kharpi'. It can be controlled by spraying chemicals like 2,4-D.

10. Arrange the following boxes in proper order to make a flow chart of sugarcane crop production.



Sol.

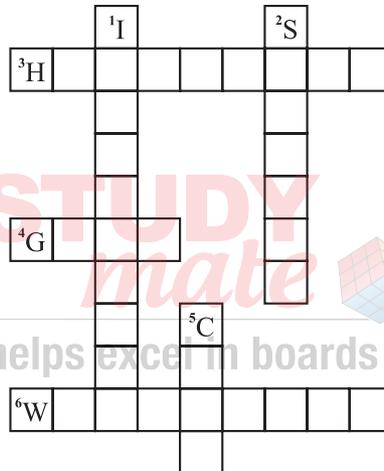
11. Complete the following word puzzle with the help of clues given below.

Down

1. Providing water to the crops.
2. Keeping crop grains for a long time under proper conditions.
5. Certain plants of the same kind grown on a large scale.

Across

3. A machine used for cutting the matured crop.
4. A rabi crop that is also one of the pulses.
6. A process of separating the grain from chaff.



Sol.

