

BIOLOGY

BOOKS - BETOPPERS

CROP PRODUCTION AND MANAGEMENT

Worksheet 1

1. What do you understand by agriculture and farming?



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2. Is agriculture limited to growing of plant crops?



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3. What is 'mixed farming'?



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4. Name some cattle kept by farmers and dairymen.



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5. What do you understand by livestock?



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6. Name crop plants which yield:

A. Starch

B. Sugar

C. A pulse

D. Edible oil

Answer:



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7. List some plantations cultivated as crops.



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8. How are healthy seeds obtained from a mixture of healthy, weak and diseased seeds?



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9. What is the advantage of treating seeds with a pesticide before sowing?



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10. List the various methods of sowing seeds.



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11. Explain the method of

a) Drill sowing

b) Transplanting



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12. What is the advantage of transplanting saplings from a nursery instead of sowing

seeds directly into the soil in the case of paddy and vegetable crops?



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Worksheet 2

1. What is the necessity of enriching the soil from time to time?



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2. Name the methods of enriching soil.



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3. How does ploughing help enrich the soil?



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4. How is manure or compost prepared on farm?



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5. What is green manure? How do we obtain it?



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6. What do you understand by symbiosis?



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7. How are root nodules on the roots of leguminous plants useful for the crop?



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8. List some common leguminous plants.



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9. What is nitrogen fixation?



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10. Why do we consider root nodules a gift from nature?



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11. How is the nitrification in the air fixed apart from nitrification fixation by Rhizobium?



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12. Name the different agencies which help in nitrogen fixation.



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13. What is rotation of crops?



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14. What is the advantage of practicing rotation of crops?



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15. What is multiple cropping? Explain giving examples.



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16. How is multiple cropping different from mixed farming?



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17. List some common cattle and farm animals which are reared by farmers.



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18. List some of the naturel means by way of which the soil is enriched with nitrogenous notrition.



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19. What is the role played by root nodules found on the roots of leguminous plants?



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20. What name has been given to the relationship between two organisms, helping one another with food and shelter?



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1. What are fertilizers?



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2. From where do we obtain fertilizers?



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3. Name the three essential elements forming a part of the plant nutrition.





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4. Name some common fertilizers?



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5. Why should we use chemical or inorganic fertilizers in the fields with utmost care?



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6. What are the harmful effects of using chemical fertilizers in excess for the enrichment of the soil?



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7. What are the advantages of using compost or green manure as against the use of fertilizers for the enrichment of soil?



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8. What is organic farming?



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9. What are the different stages in the life of a crop when fertilizers are to be used?



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10. Why should the earthworms be cultivated in garden soil?





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Worksheet 4

1. Name some common weeds.



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2. What are weeds ?



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3. Are weeds really unwanted plants?



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4. How are weeds useful in nature?



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5. Which is the most convenient and common method of weeding?



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6. What do you understand by weeding?



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7. How is biological control useful in weeding?



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8. What are weedicides? Explain their use giving examples.



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9. Why should the weeds be weeded out before they flower and bear seeds?



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10. Why should the roots from leguminous weeds be left behind in the soil while weeding them out?



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Worksheet 5

1. What do you understand by irrigation?



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2. What has been the main source of water for irrigating the fields?



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3. Name some of the irrigational schemes.



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4. Besides irrigation, what is the additional advantage of raising dams?



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5. Which crop needs flooded fields while planting saplings?



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6. What do you understand by 'harvesting'?



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7. How are crops harvested manually?



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8. What is 'winnowing'?



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9. Describe the working of a 'harvester combine'.



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10. What is the advantage of mechanised harvesting?



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1. Why do crops need protection?



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2. Birds damage the fruits and seeds on crops but they are considered as useful. Why?



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3. What do you understand by pests?



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4. What do you understand by pests?



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5. What are insecticides? Give some examples.



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6. What are fungicides? Give some examples.



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7. Why do we have a fence around a farm?



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8. What is a scarecrow?



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Worksheet 7

1. List precautions to be taken before storing grains.



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2. Why should the grains be stored in metallic bins or silos?



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3. Why is nitrogen pushed into the granaries?



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4. What is the disadvantage of storing grains in cellars?



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5. What are weevil?



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6. Which is the most common insect pest on grains?



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7. Name some animals which are kept as pets.



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8. Name the items of food which come from animal sources.



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9. Define animals husbandry.



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10. Which animals are milch animals?



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11. Name some common animals the flesh from whom is eaten as food.



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12. Name some poultry(birds) and the food we get from them.



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13. What is hive? Why do we call beehive as honeycomb too?



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14. From where do honeybees collect honey?



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15. Give the test for pure honey.



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Competitive Worksheet

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

A

- (i) *Kharif* crops
- (ii) *Rabi* crops
- (iii) Chemical fertilisers
- (iv) Organic manure

B

- (a) Food for cattle
- (b) Urea and super phosphate
- (c) Animal excreta, cow dung, urine and plant waste
- (d) Wheat, gram, pea
- (e) Paddy and maize



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2. Give two examples of each.

(a) Kharif crop (b) Rabi crop



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

Sending crop to
sugar factory

1

Irrigation

2

Harvesting

3

Sowing

4

Preparation of
soil

5

Ploughing the
field

6

Manuring

7



4. 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.

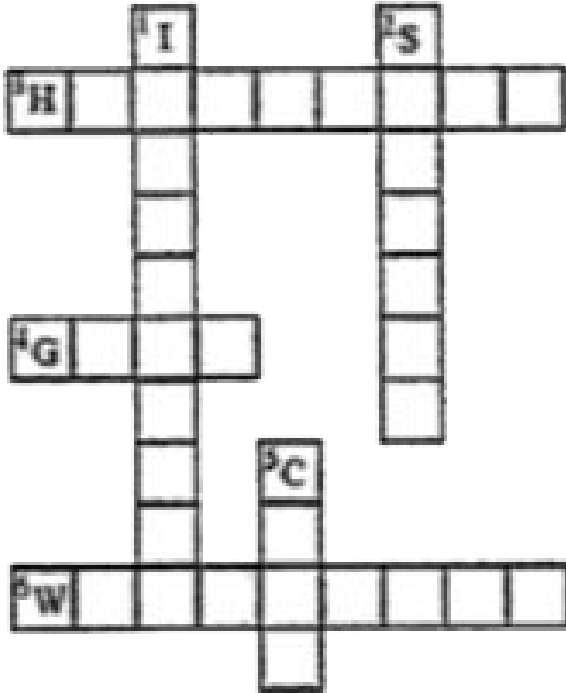
Across

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.



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5. Continuous cultivation of crops on the same piece of land reduces the nutrient content of soil. Therefore i and ii are added to soil to replenish its lost nutrients.

A. i-manures, ii-fertilizers

B. i-fertilizers, ii-pesticides

C. pesticides, ii-weedicides

D. i-weedicides, ii-manures

Answer: A



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6. Seed drill is a modern tool used for sowing seeds in the crop field. Which of the following statements about seed drill is incorrect?

A. It sows seeds at proper distance from each other, thereby avoiding overcrowding.

B. It reduces the chances of pest attack on crops, thereby increasing crop yield.

C. Unlike manual sowing of seeds, it sows seeds at proper depth.

D. Unlike manual sowing of seeds, it is less time consuming.

Answer: B



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7. Pooja put a handful of seeds in a container filled with water. After sometime, she observed that some seeds were floating on the surface

of water, while others had sunk to the bottom of the container.

The seeds floating on the surface of water are

A. damaged as they are hollow

B. damaged as they are solid

C. healthy as they are hollow

D. healthy as they are solid

Answer: A



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8. Which of the following tools is used for ploughing the field?

A. Hoe

B. Rahat

C. Dhekli

D. Funnel

Answer: A



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9. The ploughing of field is the first step in the process of crop plantation. Which of the following statements about the usefulness of ploughing is incorrect?

A. It promotes the growth of useful microbes in soil

B. It brings nutrients to the top layer of soil

C. It reduces the population of pests in soil

D. It helps in aerating the soil

Answer: C



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10. Which of the following crops is a Kharif crop?

A. Wheat

B. Gram

C. Maize

D. Mustard

Answer: C



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11. A farmer planted rice plants in his well-irrigated field season after season. The given figure illustrates the yield of rice in his field from 2003“ 2007.

Which of the following statements does not support the given observation?

- A. His land fertility is reduced because of the continuous usage.
- B. The weeds may have interfered with the yield of the crop.
- C. He may have used excessive amount of fertilisers.
- D. He may have used excessive manure in his field.

Answer: D



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12. Hari sowed some seeds of rice in his fields. Initially, the plants were growing well but after sometime he found that their growth had started to decline. After analyzing the situation, he applied 2,4-D in his field. Afterwards, the plants regained their growth. The possible cause for the decline in the growth of the crop in Hari's field is

A. disease in plant

B. lack of nutrients

C. presence of pest

D. presence of weeds

Answer: D



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13. A farmer divided his field into 2 parts after ploughing. In part 1, he sowed seeds by spraying them manually while in part II, he used a seed drill. The given figure illustrates the position of seeds in both the parts of the

fields.

He gave the same treatment to both the parts of the field

Which of the following statements is correct regarding the given situation?

A. The yield in part I and part II would be the same.

B. The yield in part I would be more than the yield in part II.

C. The yield in part II would be more than the yield in part I.

D. The yield in part I and part II cannot be compared through given set of information.

Answer: C



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14. The alternatives in the given table can be correctly matched as

	Column A		Column B
i	Carbohydrates	a	Protection
ii	Proteins	b	Digestion
iii	Roughage	c	Strength
iv	Vitamins	d	Energy

A. $i \rightarrow b, ii \rightarrow C, iii \rightarrow a$

B. $i \rightarrow a, ii \rightarrow b, iii \rightarrow c$

C. $i \rightarrow b, ii \rightarrow a, iii \rightarrow c$

D. $i \rightarrow c, ii \rightarrow b, iii \rightarrow a$

Answer: A



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