

Chapter 15 - Improvement in food Resources

Short Answer Type Questions

1. Match the column A with the column B

(A)	(B)
(a) Catla	(i) Bottom feeders
(b) Rohu	(ii) Surface feeders
(c) Mrigal	(iii) Middle-zone feeders
(d) Fish farming	(iv) Culture fishery

2. Fill in the blanks

- (a) Pigeon pea is a good source of _____ .
- (b) Berseem is an important _____ crop.
- (c) The crops which are grown in rainy season are called _____ crops.
- (d) _____ are rich in vitamins.
- (f) _____ crop grows in winter season.

3. What is a GM crop? Name any one such crop which is grown in India.

4. List out some useful traits in improved crop?

5. Why is organic matter important for crop production?

6. Why is excess use of fertilizers detrimental for environment?

7. Give one word for the following

- (a) Farming without the use of chemicals as fertilizers, herbicides and pesticides is known as _____ .
- (b) Growing of wheat and groundnut on the same field is called as _____ .
- (c) Planting soyabean and maize in alternate rows in the same field is called as _____ .
- (d) Growing different crops on a piece of land in pre-planned succession is known as _____ .
- (e) Xanthium and Parthenium are commonly known as _____ .

- (f) Causal organism of any disease is called as _____ .

8. Match the following A and B

(A)

(B)

- | | |
|---|----------------------------|
| (a) Cattle used for tilling and carting | (i) Milk producing female |
| (b) Indian breed of chicken | (ii) Broiler |
| (c) Sahiwal, Red Sindhi | (iii) Drought animals |
| (d) Milch | (iv) Local breed of cattle |
| (e) Chicken better fed for obtaining meat | (v) Aseel |

9. If there is low rainfall in a village throughout the year, what measures will you suggest to the farmers for better cropping?
10. Group the following and tabulate them as energy yielding, protein yielding, oil yielding and fodder crop.
Wheat, rice, berseem, maize, gram, oat, pigeon gram, sudan grass, lentil, soyabean, groundnut, castor and mustard.
11. Define the term hybridization and photoperiod.
12. Fill in the blanks
- (a) Photoperiod affect the _____ .
 - (b) Kharif crops are cultivated from _____ to _____ .
 - (c) Rabi crops are cultivated from _____ to _____ .
 - (d) Paddy, maize, green gram and black gram are _____ crops.
 - (e) Wheat, gram, pea, mustard are _____ crops.
13. Cultivation practices and crop yield are related to environmental condition. Explain.
14. Fill in the blanks
- (a) A total of _____ nutrients are essential to plants.
 - (b) _____ and _____ are supplied by air to plants.
 - (c) ———is supplied by water to plants.

- (d) Soil supply _____ nutrients to plants.
- (e) _____ nutrients are required in large quantity and called as _____ .
- (f) _____ nutrients are needed in small quantity for plants and are called _____ .

15. Differentiate between compost and vermicompost?

16. Arrange these statements in correct sequence of preparation of green manure.

- (a) Green plants are decomposed in soil.
- (b) Green plants are cultivated for preparing manure or crop plant parts are used.
- (c) Plants are ploughed and mixed into the soil.
- (d) After decomposition it becomes green manure.

17. An Italian bee variety *A. mellifera* has been introduced in India for honey production. Write about its merits over other varieties.

18. In agricultural practices, higher input gives higher yield. Discuss how?

Long Answer Type Questions

1. Discuss the role of hybridisation in crop improvement.

2. Define (i) Vermicompost

(ii) Green manure

(iii) Bio fertilizer

3. Discuss various methods for weed control.

4. Differentiate between the following

- (i) Capture fishery and Culture fishery
- (ii) Mixed cropping and Inter cropping
- (iii) Bee keeping and Poultry farming

5. Give the merits and demerits of fish culture?

6. What do you understand by composite fish culture?

7. Why bee keeping should be done in good pasturage?

8. Write the modes by which insects affect the crop yield.
9. Discuss why pesticides are used in very accurate concentration and in very appropriate manner?
10. Name two types of animal feed and write their functions.
11. What would happen if poultry birds are larger in size and have no summer adaptation capacity? In order to get small sized poultry birds, having summer adaptability, what method will be employed?
12. Suggest some preventive measures for the diseases of poultry birds.
13. Figure 15.1 shows the two crop fields [Plots A and B] have been treated by manures and chemical fertilizers respectively, keeping other environmental factors same. Observe the graph and answer the following questions.
 - (i) Why does plot B show sudden increase and then gradual decrease in yield?
 - (ii) Why is the highest peak in plot A graph slightly delayed?
 - (ii) What is the reason for the different pattern of the two graphs?

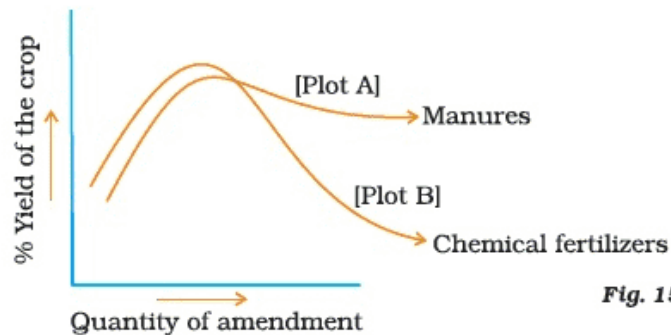


Fig. 15.1

14. Complete the crossword puzzle (Fig.15.2)

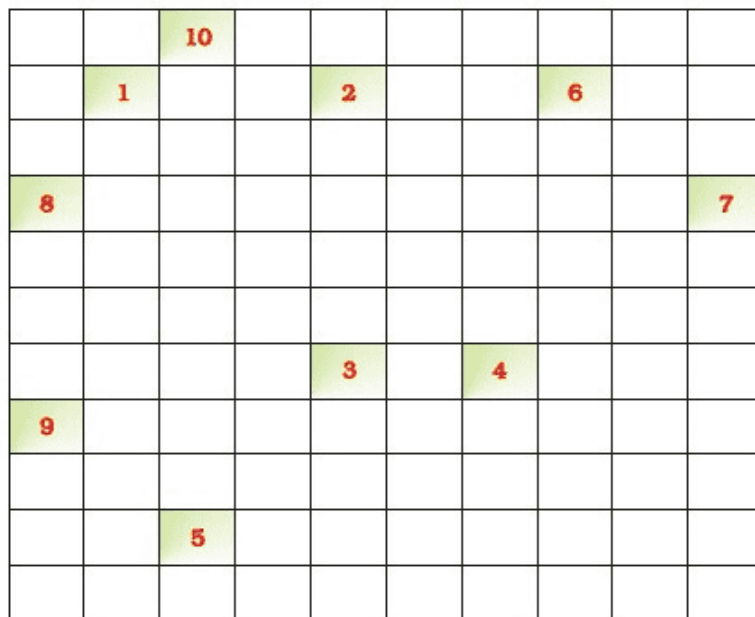


Fig. 15.2

Across

- 1. Oil yielding plant (9)
- 3. Crop grown in winter season (4)
- 5. Fixed by Rhizobium (8)
- 9. Common honey bee (4)

Downward

- 2. Animal feed (6)
- 4. A micronutrient (5)
- 6. Unwanted plant in crop fields (4)
- 7. An exotic breed of chicken(7)
- 8. Bottom feeders in fish pond(7)
- 10. A marine fish (4)