

QUESTION BANK
BIOLOGY
Class IX

Food production and management

1. Define crop rotation. While choosing plants for crop rotation, what factors should be kept in mind? 3
2. List any three managing practices while designing a shelter for cattle. 3
3. a) State the two types of food requirements of dairy animals. 5
b) List the various constituents of food of dairy animals.
c) Why do cattle need a balanced diet?
4. a) How many nutrients are essential for plants? 5
b) What are macro nutrients and micro nutrients?
c) List the nutrients supplied by air, water and soil.
5. a) State two differences between egg layers and broilers. 5
b) How can poultry fowl be prevented from various diseases? State any three methods.
6. a) Farmer 'X' planted soybean + maize + cowpeas in the same field simultaneously in set row pattern. Farmer 'Y' planted cereal crop in one season and leguminous crop in next season on the same piece of land in preplanned succession. Name the cropping pattern used by farmer 'X' and 'Y'.
b) State two advantages of cropping pattern followed by farmers 'X' and 'Y' respectively. 5
7. What are manures? State two kinds of manures. How does manure affect the soil fertility? 3
8. a) A farmer wants to harvest more than two varieties of crop at a time from his field. Suggest him one method to get the desired result. Also state three advantages of this cropping pattern. 3
b) Name two fodder crops.
9. State two advantages of composite fish culture. What is the application of hormonal stimulation in fish culture? 3
10. i) How do the following factors improve the crop yield? 5
a) shorten maturity duration
b) biotic and abiotic resistance
c) wider adaptability
ii) State any two methods of improving crop variety.
11. Unpredictable monsoons/droughts/low rainfall is adversely affecting the Indian agriculture.
a) Mention any two initiatives that have been adopted to increase the availability of water for agricultural purposes.
b) State two advantages of making check dams.
c) Briefly describe canal and river lift systems of irrigation. 5
12. a) Name one indigenous and one exotic breed of domestic fowl. 3
b) What are the two main products obtained from raising domestic fowl?
c) Name two vitamins that should be included in high amount in poultry feed.
13. a) State two characteristics of ideal cattle shed. 3
b) Cattles are mainly reared for milk or performing agricultural tasks. What are these two categories of cattles known as?
c) Name two indigenous breeds of cattle.
14. a) What are the common names of *Apis dorsata*, *Apis florea* and *Apis cerana indica*? 5
b) Name one Italian bee variety. Also justify the use of Italian bee for honey production giving two reasons.
c) State one factor which affects the quality of honey produced.
15. Mention three different ways in which crop plants can be infested by insect pests. Also suggest one control measure and one preventive measures against pests. 2
16. a) Besides causing illhealth and death, how do diseases affect dairy animals? 3
b) In a cattle farm there are fifteen cattles. How can differentiate between diseased and healthy cattles without conducting diagnostic tests?
c) Cattle feed should include right amount of concentrates. What do concentrates in cattle feed refer to?
17. a) What do the terms macro nutrients and micronutrients signify? 5
b) Briefly describe the formation of vermicompost and green manure.
c) List two advantages of using manure for nutrient management.

18. a) Ajay, an illiterate farmer does not understand the difference between manure and fertilizer. Help him to differentiate between them in terms of their composition. 5
- b) Justify the use of manure highlighting two of its advantages.
- c) mention one drawback of excessive use of fertilizer.
19. Define draught animals. Mention the desired qualities which will be seen in a cross breed between brown Swiss and Sahiwal. What are concentrates in cattle feed? 3
20. Why are manures and fertilizers used in field? A farmer irrigated his field excessively after adding fertilizers. Explain why this is not a correct practice? 3
21. a) A student visited a fish farm where he found Catla, Rohu, Mrigals, Common Carps and Grass Carps cultured in the same pond. Name the type of fish farming observed by the student. 5
- b) Mention the advantages of such fish farming.
- c) What is the main problem in such fish farming? How do farmers overcome such problem?
22. a) List the different ways in which biotic and abiotic factors affect stored food grains. 5
- b) What preventive and controlling measures need to be taken before and after storing the grains?
- c) Name two weeds.
23. a) List the different ways in which biotic & abiotic factors affect stored food grains? 2
24. b) What preventive & control measures need to be taken before & after storing the grains? 3