

Class: 9
Subject: Biology
Topic: Improvement In Food Resource
No. of Questions: 20

Q1. List some important traits in improved crops.

Sol. Some of the important traits in improved crops are:

1. high yield
2. improved quality
3. high resistance
4. wider adaptability
5. desirable agronomic traits

Q2. Why is excess use of fertilizers detrimental for environment?

Sol. Excess use of fertilizers has many bad effects like:

1. salination of soil
2. eutrophication
3. excess minerals in crop plants

Q3. Give one word:

1. growing of wheat and groundnut in the same field.
2. xanthium and parthenium are called.
3. causal organism of any disease is called.
4. Farming without the use of chemicals.
5. planting of soyabean and maize in alternate rows in the same field.

Sol.

1. Mixed cropping
2. Weeds
3. Pathogen
4. organic farming
5. Intercropping

Q4. Define hybridization.

Sol. Crossing of two individuals with different useful traits in order to bring them together in a progeny. The new organism thus obtained is called a hybrid and has better characters as compared to either of the parents.

Q5. What is vermicompost?

Sol. It is a manure rich in pulverized organic matter and worm castings. It is prepared using earthworms. It is a quicker method of composting. Earth worms are separated and the Compost is ready for use.

Q6. Explain the term bio fertilizers.

Sol. Living organisms like nitrogen fixing bacteria, blue green algae and minerals Solubilizing bacteria are called bio fertilizers. E.g. Blue green bacteria, (nostoc, anabaena etc.)

Q7. Name two varieties of Indian fish

Sol. Fresh water: catla, rohu
Marine fish : hilsa , sardine

Q8. Name two indigenous and two exotic breeds of poultry.

Sol. Indigenous : aseel, basra
Exotic : rhode Island Red, white leghorn.

Q9. Give two reasons as to why there is tremendous scope to develop fisheries in India.

Sol. 1. There is good scope for fisheries in India because India has 1.6 million hectares of inland water bodies.
2. Its coast line is 6500 km long.

Q10. Why are wrestlers and sportsmen recommended to have egg, meat and fish as a part of their diet?

Sol. Sportsmen and wrestlers are recommended to have egg, meat and fish as a part of their diet because they contain high amounts of protein which is essential for growth and development of muscles.

Q11. Chicken A is (all chicken in reference are of same variety egg laying) exposed to very bright sunlight, chicken B is kept inside a dark building whereas chicken C is kept in a well-lit building. Which chicken will have maximum laying output?

Sol. Chicken C will have maximum laying output.
This is because it is exposed to moderate sunlight. Moderate light intensity and duration has a favourable effect on the egg laying output of the hens.

Q12. Give two advantages of Holstein-Friesian over the Red Sindh

Sol. Advantages of Holstein-Friesian over the Red Sindhi are:

- Average milk production is more
- Lactation periods extend through the year

Q13. In a certain technique, the developing embryo from a superior breed is removed and transferred into another female of inferior characters. Name this technique.

Sol. The technique is embryo transfer.

Q14. At a certain organisation in India cross breeds such as Karan swiss, karan fries etc. have been developed. Which organisation is it? Where is it located?

Sol. National Dairy Research Institute at Karnal, Haryana.

Q15. A certain health conscious person needs to choose between milk of the Surti and the Murrah. Which one should he/she choose?

Sol. He/she should opt for the milk from the Murrah as its fat content (<7%) is lesser than that of the Surti (8%-12%).

Q16. Cows A and B are of same breed. Cow A is fed on grass and cow B is fed on maize, grass, barley, etc. Which do you expect to give a higher quantity of milk?

Sol. Cow B as it has both roughage and concentrates in its diet.

Q17. What are advantages of composite fish culture?

Sol. Composite fish culture is the practice of growing 5 to 6 species of fish in the same Fish tank. It includes the use of surface feeders, middle zone feeder and bottom Feeder.

Q18. Name two exotic breeds of cows

Sol. 1. holstein- friesian 2. Brown swiss

Q19. What is roughage?

Sol. It's a course and fibrous substance which has low nutrient content .e.g. fodder,hay and straw

Q20. Name some symptoms of sick animals:

Sol. If an animal is sick, it shows following symptoms:

1. inactive 2. look tired 3. remain isolated 4. low yield

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