



BIOLOGY

BOOKS - PEARSON IIT JEE

FOUNDATION

IMPROVEMENT IN FOOD RESOURCES

Quick Recap

1. Distinguish between mixed cropping and intercropping.



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2. Compare the advantages and disadvantages of manure and chemical fertilizer.



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3. Compare marine fishery and inland fishery.



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Test Your Concepts Fill In The Blanks

1. The crops which are grown from June to October are called _____



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2. The method of producing new variety of crops that are superior to the existing varieties is known as _____



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3. The process of producing new variety of crops by crossing two genetically different parent crops is known as _____



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4. The modern technique in the field of crop variety improvement is known as _____



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5. The nutrients that are required in large quantities by the plants are known as



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6. _____ is known as the supply of controlled amount of water to the plants.



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7. Rearing of animals is known as cattle



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8. _____ given in time helps the farm animals from viral and bacterial diseases.



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9. The process of obtaining fish from natural resources is known as _____



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10. The maintenance of hives of honey bees for the production of honey is called _____



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11. Cattle are both affected by internal and external _____.



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Test Your Concepts Select The Correct Alternatives

1. _____ crop is an example of rabi crops.

A. Paddy

B. Soya bean

C. Wheat

D. Cotton

Answer: C



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2. The method of producing variety of crops by cross breeding the two species of same genus is known as _____.

A. Inter-varietal hybridization

B. Inter-specific hybridization

C. Inter-generic hybridization

D. Genetic engineering

Answer: B



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3. What are the basic objectives behind the crop variety improvement?

A. To increase the yield of plant products.

- B. To produce biotic and abiotic resistance to the plants
- C. To improve the quality of food crops.
- D. All of these

Answer: D



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4. Identify the micronutrients among the following.

A. Nitrogen

B. Potassium

C. Calcium

D. Iron

Answer: D



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5. The prevention of water logging in the clayey soil is due to the presence of _____

A. organic matter

B. nitrogen

C. oxygen

D. phosphorus

Answer: A



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6. The salt water fishery is known as

- A. inland fishery
- B. marine fishery
- C. river water fishery
- D. None of these

Answer: B



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7. The external parasites such as _____ affect the stomach of animals.

A. worms

B. flukes

C. virus

D. bacteria

Answer: A



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8. _____ are used to protect the cattle from rain, heat and cold.

A. Roofed sheds

B. Open places with no shelter

C. Sheds without roof

D. Places near to sea

Answer: A



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Test Your Concepts

1. Match the entries of Column 1 with those of Column 2.

Column 1	Column 2
A. Crop variety improvement	(i) Intercropping
B. Crop production management	(ii) River lift system
C. Crop protection management	(iii) Control of weeds, insects, etc.
D. Irrigation	(iv) Crop rotation
E. Cropping pattern	(v) Hybridization



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2. Match the entries of Column 1 with those of Column 2.

Column 1	Column 2
A. Finned fish	(i) Estuaries
B. Shell fish	(ii) Canals
C. Fresh water resources	(iii) Prawns
D. Brackish water resources	(iv) Bhetki



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Mastering The Concepts Knowledge And Understanding

1. What are the different stages that are involved in the farming practices?



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2. Define hybridization



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3. Name the different methods that are employed in crop variety improvement.



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4. What are the different practices that are involved in crop production management?



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5. Mention the important objectives of crop variety improvement.



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6. What is manure ?



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7. Distinguish between vermicompost and green manure.



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8. We are getting different varieties of rice in the market. All of them resemble each other. Explain.



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9. Usage of genetically modified crops has increased to greater extent in recent times. Explain.



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10. Replacing chemical fertilizers by organic manure is good for soil more than plants. Explain.



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11. What are the advantages of growing wheat with chick pea in mixed cropping?



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12. What is the reason behind drying the grains thoroughly after the production?



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13. What is cattle farming?



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14. What do you mean by animal husbandry and what are its inclusions?



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15. What is the breed of chicken which are used only for meat production?



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16. What are the different types of fishery?



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17. Name the process of capturing fish in the natural resource.



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18. What are the different types fish included in marine fishery?





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19. What is composite fish culture?



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20. National office of animal health works to provide the farmers with different range of vaccines to protect the health and welfare of their cattle. Why is it necessary to give vaccine to cattle?



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21. Ramesh found that there is difference in production of milk by their cow and the dairy cow. What could be the reason behind this?



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22. Why is it important to provide balance and sufficient diet for the cattle?



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23. Why is it economical to cross-breed Aseel and Leghorn in poultry?



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24. Identify the type of fish farming which increases the productivity but lacks in pure fish seeding for culture. Also mention its merits.



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25. People in Indonesia practice Paddy fish culture to a greater extent. Explain its advantages.



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26. Honey plays a major role in many of ayurvedic medicines. How is it produced?



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27. What type of food is required by the cattle?



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28. What type of combination of fishes are reared in composite fish culture?



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29. What is the feed required for the following fishes?

(a) Catlas (b) Rohus (c) Mrigals (d) Grass carp



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30. Identify the false statement regarding poultry.

A. Cross breeding technique in poultry helps in producing new varieties with improved qualities.

B. Vaccination can prevent the occurrence of infectious diseases.

C. Poultry feed should be rich in vitamins K and E.

D. Proper sanitation and maintenance are not so much required for poultry.

Answer: D



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31. Identify the correct statement/s regarding the cross breed of Aseel and Leghorn.

(i) It has greatest capability of production of eggs.

(ii) It cannot sustain at high temperatures.

(iii) Low maintenance is required.

A. Only (i)

B. Both (i) and (iii)

C. Only (ii)

D. Both (ii) and (iv)

Answer: B



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32. Assertion (A): Protein and fat-rich food should be provided to broiler chicken.

Reason (R): Broiler chicken is grown to provide eggs of good quality.

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A

C. A is true but R is false

D. A is false but R is true

Answer: c



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33. Assertion (A): Integrated farming is a part of sustainable agricultural practices.

Reason (R): Sometimes fish is cultured in the paddy field along with the cultivation of rice crop.

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A

C. A is true but R is false

D. A is false but R is true

Answer: b



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Mastering The Concepts Application And Analysis

1. Can green revolution be considered a sustainable agricultural practice? Give reason in support of your answer.



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2. What are the advantages of rain water harvesting?



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3. Poultry feed should be rich in vitamin E. Give reason.



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4. Oilcakes are used as the food for cattles. Why?



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Mastering The Concepts Assertion And Reason

1. Assertion (A): Paddy is grown in rainy season.

Reason (R): Paddy is a kharif crop.

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A

C. A is true but R is false

D. A is false but R is true

Answer: b



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2. Assertion (A): Crop rotation is a part of sustainable agricultural practice.

Reason (R): Crop rotation helps in maintaining the soil fertility.

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A

C. A is true but R is false

D. A is false but R is true

Answer: a



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3. Assertion (A): Intercropping increases the productivity of an agricultural land.

Reason (R): Same fertilizers and pesticides can be used for different variety of crops.

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A

C. A is true but R is false

D. A is false but R is true

Answer: c



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4. Assertion (A): River lift system is more economical than canal system for irrigation.

Reason (R): In river lift system, a pump is used to lift the water from river.

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A

C. A is true but R is false

D. A is false but R is true

Answer: d



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5. Assertion (A): Cross breeding of dairy animals increases the productivity of milk.

Reason (R): Lactation period of dairy animals can be increased by cross breeding.

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true, but R is not the correct explanation of A
- C. A is true but R is false
- D. A is false but R is true

Answer: a



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6. Assertion (A): Composite fish culture involves the cultivation of different varieties of fish having same feeding habits.

Reason (R): Different varieties of fish utilize different areas of the same pond for their feed.

A. Both A and R are true and R is the correct explanation of A

B. Both A and R are true, but R is not the correct explanation of A

C. A is true but R is false

D. A is false but R is true

Answer: d



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Assesment Test Fill In The Blanks

1. In _____ cropping, different crops are cultivated at a time.



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2. _____ is a systematic cultivation of different crops in a proper sequence in different seasons on the same land.



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3. _____ is the organic matter which is derived from the biological wastes.



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4. Indian agricultural sector largely depends upon _____



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5. Cattle can produce milk during _____ period after the birth of a calf.



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Assesment Test Select The Correct Alternatives

1. Which of the following are used to hasten the process of decomposition of organic matter for producing vermicompost?

A. Rats

B. Earthworms

C. Rodents

D. Pigs

Answer:



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2. _____ and _____ are the plants which are grown to produce green manure.

A. Sun hemp and gaur

B. Wheat and soya bean

C. Xanthium and Parthenium

D. Cyperus and Rotundus

Answer:



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3. _____ is a source of wax and is used in the preparation of medicines, polish, etc.

A. Manure

B. Beehives

C. Honey

D. Green manure

Answer:



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4. _____ and _____ are examples of shelled fish which come under fish production.

A. Prawns and molluscs

B. Mulletts and bhetki

C. Catlas and rohus

D. Pearl spots and mulletts

Answer:



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5. Which among the following is a local Indian breed of cattle?

A. Jersey

B. Brown Swiss

C. Red sindhi

D. None of these

Answer:



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Assesment Test

1. Write the missing corelated terms.

Crop variety management : Hybridization

:: _____ : Nutrient management.



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2. Write the missing corelated terms.

River lift system: _____ :: Cropping Pattern :

Mixed cropping.



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3. Write the missing corelated terms.

Storage of grains : _____ :: manure :

Nutrient management.



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4. Write the missing corelated terms.

Cattle farming: milk :: _____ : honey



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5. Write the missing corelated terms.

Animal husbandary: poultry farming

:: _____ : Marine fishery



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Assesment Test Correct The Statement

1. The new varieties of plants that are produced by plant breeding are not resistant to diseases.



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2. Nutrient management to plants comes under crop protection management.



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3. Mixed cropping results in crop failure by producing different crops at a time.



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4. Genetically modified crops give less yield



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5. Culture fishery in fresh water is known as composite culture.



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Assesment Test Answer The Following Questions

1. What are chemical fertilizers?



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2. What is the main use of river lift system?



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3. What are the main objectives of crop protection management?



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4. What are the different varieties of bees used for honey production?



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5. Name the honey bee that is widely used for honey production.



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6. Differentiate marine culture from aquaculture.



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7. Draw a flow chart of different fish production cultures.



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