



BIOLOGY

BOOKS - BETTER CHOICE PUBLICATION

STRATEGIES FOR ENHANCEMENT IN FOOD PRODUCTION

Very Short Answer Type Questions

1. Name male and female parents of mule.



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2. Define Totipotency.



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3. Explain what is meant by 'Biofortification'?



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4. What is the major advantage of producing plants by micropropagation?



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5. Which part of the plant is best suited for making virus free plants and why?



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6. Name two vitamins produced by microbial fermentation.



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7. Name the enzyme used to dissolve bacterial cell wall.



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8. What is Animal Husbandry?



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9. Name a filamentous fungi used in the production of single cell protein.





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10. Name a green alga used in production of single cell protein.



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11. What are two main components of cattle feed ?



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Most Expected Questions

1. Mention the strategy used to increase homozygosity in cattle for desired traits.



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2. What are intervarietal and interspecific hybridisations?



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3. Name the most common bee species in India.



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4. Fill in the blanks

..... is semi dwarf rice variety.



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5. wheat variety having high protein content is



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6. Why there was sudden rise in wheat and rice production from 1960 to 2000?



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7. Define the term Breed.



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8. Define Somaclone.



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9. Define Germplasm.



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10. MOET programme has helped in increasing the herd size of the desired variety of cattle.

List the steps involved in conducting the programme.



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11. Name the variety of wheat , which is resistant to leaf stripe rust and hill bunt.



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12. Give one variety of following plants with disease resistance. Brassica-White rust



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13. Give one variety of following plants with disease resistance. Cauliflower-Black rot and Curl blight black rot.



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14. Give one variety of following plants with disease resistance. Cowpea-Bacterial blight.



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15. Explain inbreeding with an example.



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16. Name any two new breeds of cattle evolved at NDRI Karnal.



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17. Write the name of the following :

The most common species of bees suitable for

apiculture.



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18. Write the name of the following :

An improved breed of chicken.



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19. Identify A, B, C and D in the following table.

Crop	Variety	Resistance to Disease
A	<i>Himgri</i>	Hill bunt
Brassica	<i>Pusa-Swarnim</i>	B
Cauliflower	C	Black rot
D	<i>Pusa Komal</i>	Bacterial blight



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Short Answer Type Questions

1. Write all you know about sustainable agriculture.



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2. What is the difference between conventional agricultural practice and modern agriculture practice?



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3. Explain sustainable growth and naturally occurring Pesticide.



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4. Explain the role of animals as resources.



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5. Explain the role of animal husbandry in human welfare.



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6. Write the application of tissue culture.



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7. Describe any two practices of Sustainable Agriculture.



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8. If your family owned a dairy farm, what measures would you undertake to improve the quality and quantity of milk production.



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9. What is meant by the term 'breed'? What are the objectives of animal breeding?



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10. Explain Biomodified foods.



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11. Explain what is meant by 'Biofortification'?



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12. What is the difference between Inbreeding and Outbreeding.



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13. What is Plant breeding? Write any two objectives of plant breeding.



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14. What is the role of apiculture in our lives?



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15. Explain the role of animal husbandry in human welfare.



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16. For successful bee-keeping. write two important tips.



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17. Explain the term : Somaclonal variations



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18. Explain the terms : Suspension culture



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19. What is 'Golden rice'? How it can prevent child blindness?



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20. Define apiary. Name the most suitable specie of honey bee for apiculture.



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21. Explain the terms- Totipotency



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22. Explain the terms- Explant





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23. Explain the terms :

Callus



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24. Explain the terms :

Micro-propagation



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25. Define crop improvement. Name the various methods of crop improvement.



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26. What is white revolution? Name two high milk yielding crossbreeds of cows.



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27. List the characters of high-yielding varieties of crop.



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28. Define hybridisation. List main objectives of hybridisation.



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29. Discuss the role of fishery in enhancement of food production.



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30. What do you know about Red rot of sugarcane?

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31. Define plant tissue culture. Write its two applications.

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32. Write the application of tissue culture.





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33. What is the role of selection in the Crop Improvement?



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34. What is heterosis? What role has it played in crop productivity?



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35. Discuss "Fisheries have an important place in India economy"



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36. Write an explanatory note on mutational breeding.



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37. Write an explanatory note on selection.



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38. Write a short note on Single Cell Protein.



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39. Explain what is meant by 'Biofortification'?



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40. Write down the three advantages of high yielding varieties of crops.



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41. Write three disadvantages of high yielding varieties of crops.



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42. What is apiculture? How is it important in our lives?



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43. What is poultry farming? Write its importance. How can you care poultry?



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44. What is plant tissue culture? Write about medium aseptic conditions and importance of tissue culture.



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45. How do fertilizers enrich the fertility of the soil ?



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46. Explain in brief the role of animal husbandry.



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47. Write the application of tissue culture.



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48. Briefly describe the various steps involved in plant breeding.



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49. What is pisciculture ? Write its importance.



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50. Expand MOET. How it is useful in bringing improvement in cattle. Explain.



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51. Name the methods employed in animal breeding. According to you which of the methods is best? Why?



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52. What is inbreeding depression ? What should be done to remove this problem ? Give advantages of Inbreeding.



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53. Name the tropical sugarcane variety grown in South India. How has it helped in improving the sugarcane quality grown in North India ?
(b) Identify 'a', 'b' and 'c' in the following table-

Crop	Variety	Insect Pests
1. Brassica	<i>Pusa Gaurav</i>	(a)
2. Flat bean	<i>Pusa Sem 2 Pusa Sem 3</i>	(b)
3. (c)	<i>Pusa Sawani Pusa A-4</i>	Shoot and fruit borer



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Long Answer Type Questions

1. Discuss the role of plant tissue culture in increasing food production.



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2. Briefly describe the various steps involved in the development of improved varieties of

Crops.



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3. Briefly describe the various types of plants diseases and the measures for their control.



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4. What is hybridization ? Give its two main objectives. Describe the technique//procedure of hybridization.



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5. Describe the methods of animals breeding including breeding of sheep, goat and pig.



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6. Name any five hybrid varieties of crop plants which have been developed in India.



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7. Name the prominent South Indian and North Indian species of sugarcane used for cross breeding. List the desired qualities of the hybrid cane obtained from this cross.



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8. What are somatic hybrids ? What are their common uses ?



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9. Explain the process of Somatic hybridisation.



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10. Enumerate four objectives for improving the nutritional quality of different crops for the health benefits of the human population by the process of "Biofortification."



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11. What is advantage of genetically modified crop plants?



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12. Mutations are beneficial for plant breeding.
How ?



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13. Describe briefly about plant breeding for improving food quality.



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