



## BIOLOGY

### BOOKS - VIKRAM PUBLICATION ( ANDHRA PUBLICATION)

## STRATEGIES FOR ENCHANCEMENT IN FOOD PRODUCTION

### Important Questions

1. What is meant by "hidden hunger"?



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2. Name two Semi-Dwarf varieties of rice developed in India.



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3. Which one of the following crop varieties correctly matches with its resistance to a disease?

Variety Resistance to disease





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4. Name any two species of fungus, which are used in the production of the antibiotics.



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5. What is meant by Totipotency ? Explain the process



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6. Give few examples of biofortified crops.

What benefits do they offer to the society ?



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7. You are a Botanist working in the area of plant breeding. Describe the various steps that you will undertake to release a new variety.



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8. The technique of obtaining large number of plants through tissue culture is



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## Very Short Answer Questions

1. What is meant by "hidden hunger"?



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2. Name two Semi-Dwarf varieties of rice developed in India.



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3. Give two examples of wheat varieties introduced in India, which are high yielding and disease resistant.



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4. Name any two species of fungus, which are used in the production of the antibiotics.



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5. Which one of the following combination would a sugarcane farmer look for in the sugarcane crop?



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6. What is meant by Totipotency ? Explain the process



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7. Somaclones are



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8. Who proposed the germplasm theory?



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9. Explain what is meant by biofortification.



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



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**Short Answer Questions**

1. Give few examples of biofortified crops.

What benefits do they offer to the society ?



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2. Which of the following is used to product

SCP on commercial scale



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**Long Answer Questions**

1. You are a Botanist working in the area of plant breeding. Describe the various steps that you will undertake to release a new variety.



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2. Describe the tissue culture technique and what are the advantages of tissue culture over conventional method of plant breeding in crop improvements programmes ?



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## Exercise

1. Briefly describe various steps involved in plant breeding.



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



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**3.** Find out what the various components of the medium used for propagation of an explant in vitro are?



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



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5. The term 'desirable trait' can mean different things for different plants. Justify the statement with suitable examples.



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6. Is there any relationship between dedifferentiation and the higher degree of success achieved in plant tissue culture experiments ?



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7. "Give me a living cell of any plant and I will give you a thousand plants of the same type" is this only a slogan or is it scientifically possible ? Write your comments and Justify them.



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8. What are the physical barriers of a cell in the protoplast fusion experiment ? How are the barriers overcome ?





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