



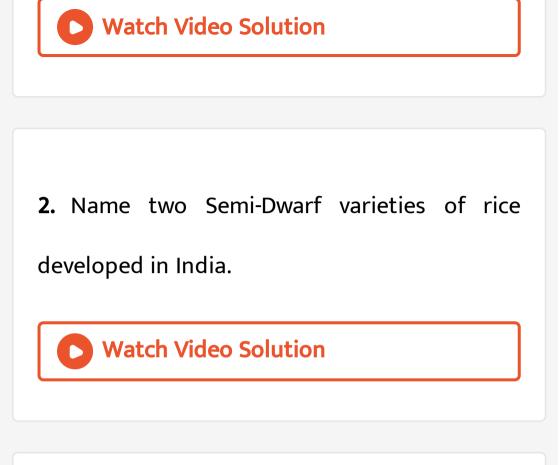
## **BIOLOGY**

## BOOKS - VIKRAM PUBLICATION ( ANDHRA PUBLICATION)

# STRATEGIES FOR ENCHANCEMENT IN FOOD PRODUCTION

**Important Questions** 

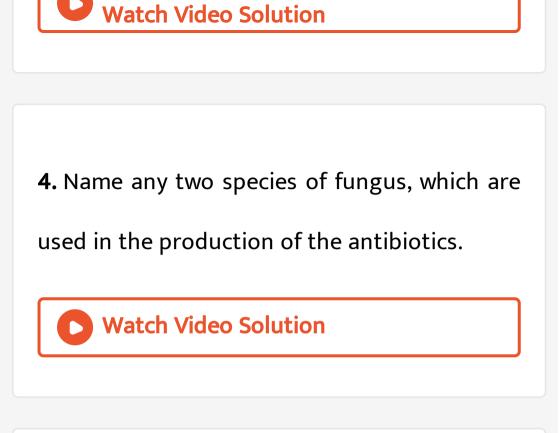
1. What is meant by "hidden hunger"?



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

Variety Resistance to disease





5. What is meant by Totipotency ? Explain the

process

6. Give few examples of biofortified crops.

What benefits do they offer to the society?



**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.

8. The technique of obtaining large number of

plants through tissue culture is



Very Short Answer Questions

1. What is meant by "hidden hunger"?

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.

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 cobination would a sugarcane farmer look for in the sugaercane crop?

6. What is meant by Totipotency ? Explain the

process



7. Somaclones are

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8. Who proposed the germplasm theory?

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.



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



#### Exercise

**1.** Briefly describe various steps involved in plant breeding.



2. What is the major advantage of producing

plants by micropropagation?

**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.

**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 ?

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 ?



