



BIOLOGY

BOOKS - BAL BHARTI

INTRODUCTION TO BIOTECHNOLOGY

Use Your Brain Power

1. What keeps the various organs and organ systems separate from each other? Why?



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2. Why are epithelial tissues said to be simple tissues?



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3. Why do slim persons feel more cold in winter than those who are obese?



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4. Why bones can not be folded?



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5. Which other industries can be started as an extension of the plant nursery business?



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6. To which places do people choose to go on vacation in order to relax when they are tired

of crowds and stressful life?



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7. Why are the cocoons transferred to boiling water before the pupa develops into an adult?



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Find Out

1. Collect information about GM varieties of crops in your area and make a note of them.

Also find out if there are adverse effects of GM crops on human beings and environment.



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2. What is meant by white revolution? Who was its pioneer? What benefits did it bring?



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3. Collect more information about animal husbandry.



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4. Find out from the internet the average daily milk yield from local and exotic varieties of COW.



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Exercise Each Of The Following Statements Is Wrong Rewrite Them Correctly By Changing Either One Or Two Words

1. State whether the following statements are true or false. Correct the false statement:

Simple squamous epithelium is present in respiratory tract.



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2. State whether the following statements are true or false. Correct the false statement:

Glandular epithelium is present in kidneys.



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3. State whether the following statements are true or false. Correct the false statement:

Chlorenchyma helps the plant to float in water.



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4. State whether the following statements are true or false. Correct the false statement:

Striated muscles are also called involuntary muscles.



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5. State whether the following statements are true or false. Correct the false statement:

Chloroplast is present in permanent tissues.



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Exercise Identify The Odd Word And Explain Why It Is Odd

1. Find the odd one out and give reason:

Xylem, phloem, permanent tissue, meristematic tissue.



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2. Find odd man out

Epithelium, muscle fibre, nerve fibre, epidermis.



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3. Find the odd one out and give reason:

Cartilage, Bone, Tendon, Cardiac muscle



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Exercise Write The Names Of The Following Tissues

1. Name the following:

Tissue lining inner surface of the mouth.



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2. Name the following

Tissue joining muscles and bones.



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3. Name the following

Tissue responsible for increasing the height of plants.



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4. Name the following

Tissue responsible for increasing the girth of stem.



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Exercise Write Short Notes

1. Write short notes

Meristematic tissue.



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2. Describe the structure of Xylem.



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3. Draw neat and well labelled diagram:

Muscular tissue:

Striated muscles.



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4. Write short notes:

Agro-complementary business



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5. Write short notes:

Genetic engineering



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6. What is sericulture?



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Exercise

1. Explain the meaning of biotechnology and its impact on agricultural management with suitable examples.



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2. Which two main techniques are used in biotechnology? Why?



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3. Discuss agritourism in class and write a project on an agritourism centre nearby. Present it in the class in groups.



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4. Define the term tissue and explain the concept of tissue culture.



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5. Rearing of sheep is a livestock, Justify this statement.



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