BIOLOGY

BOOKS - NAND LAL PUBLICATION

THE FUNDAMENTAL UNIT OF LIFE

Intext Questions

1. Who discovered cell and how ?

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2. Why is the cell called the structural and functional unit of life?

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3. How do substances like CO_2 and water move in and out of the cell? Discuss.

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4. Why is plasma membrane called a selectively permeable membrane?

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5. Fill in the gaps in the following table illustrating differences between prokaryotic and eukaryotic cells.

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6. Can you name the two organelles we have studied that contain their own genetic material?

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7. If the organization of a cell is destroyed due to some physical or chemical influence, what will happen?

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8. Why are lysosomes known as suicide bags?

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9. Where are proteins synthesized inside the cell.

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Exercise

1. Make a comparison and write down ways in which plant cells are different from animal cells.

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2. How is a prokaryotic cell different from an eukaryotic cell ?

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3. What would happen if the plasma membrane ruptures or breaks down ?

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4. What would happen to the life of a cell if there was no Golgi apparatus ? ·

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5. Which organelle is known as the powerhouse of the cell ? Why ?

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6. Where do the lipids and proteins constituting the cell membraine get synthesized ?

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7. How does an Amoeba obtain its food ?

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8. What is osmosis?

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9. Carry out the following osmosis experiment: Take four peeled potato halves and scoos each one out to make potato cups. One of these

potato cups should be made from a boiled potato. Put each potato cup in a trough containing water.(a) Now, Keep cup A empty. (b)Put one teaspoon sugar in cup B.(c)Put one teaspoon salt in cup c.(d)put one teaspoon sugar in the boiled potato cup D.Keep these for two hours then observe the four potato cups and answer the following:Explain why water gathers in the hollowed portion of B and C.

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10. Carry out the following osmosis experiment: Take four peeled potato halves and scoos each one out to make potato cups. One of these potato cups should be made from a boiled potato. Put each potato cup in a trough containing water.(a) Now, Keep cup A empty.(b)Put one teaspoon sugar in cup B. (c)Put one teaspoon salt in cup c.(d)put one teaspoon sugar in the boiled potato cup D.Keep these for two hours then observe the four potato cups and answer the following: Why is potatoA necessary for this experiment?

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11. Carry out the following osmosis experiment: Take four peeled potato halves and scoos each one out to make potato cups. One of these potato cups should be made from a boiled potato. Put each potato cup in a trough containing water.(a) Now, Keep cup A empty.(b)Put one teaspoon sugar in cup B. (c)Put one teaspoon salt in cup c.(d)put one teaspoon sugar in the boiled potato cup D.Keep these for two hours then observe the

four potato cups and answer the following: Explain why water does not gather in the hollowed out portion of A and D.

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Additional Questions

1. Who coined the word 'cell' ?

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2. Which instrument helps you to look at the cellular structure of an onion peel?

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3. Draw a labelled diagram of a compound microscope.

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4. Draw the diagram of an onion peel as shown by the compound microscope.

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5. Will there be a difference in the temporary slides of the peels of a big and a small onion as seen under the microscope?

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6. What is plasma membrane?

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7. What is the main feature of the plasma membrane?

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8. What is osmosis?

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9. What wiII happen if you place a plant or an animal cell in sugar or salt solution?

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10. What would happen if the plasma membrane ruptures or breaks down?

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11. Why is plasma membrane called a selectively permeable membrane?

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