



BIOLOGY

NCERT - NCERT BIOLOGY(HINGLISH)

THE FUNDAMENTAL UNIT OF LIFE

Exercise

1. Who discovered cells, 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 CO₂ and water move in and out of the cell? Discuss



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



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5. Difference between the prokaryotic and eukaryotic cells in having



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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 organisation 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 synthesised inside the cell?



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

cells.



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11. How is a prokaryotic cell different from a eukaryotic cell?



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



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



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



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15. Where do the lipids and proteins constituting the cell membrane get synthesised?



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16. How does an Amoeba obtain its food?



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17. What is osmosis?



18. Carry out the following osmosis experiment:

Take four peeled potato halves and scoop 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.

Now, (a) 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:

(i) Explain why water gathers in the hollowed portion of B and C.

(ii) Why is potato A necessary for this experiment?

(iii) Explain why water does not gather in the hollowed-out portions of A and D.



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19. Which type of cell division is required for growth and repair of body and which type is involved in formation of gametes?



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