



BIOLOGY

BOOKS - PSEB

The Fundamental Unit of Life

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 a 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 power house of the cell ? Why ?



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



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



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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:Explain why water gathers in the hollowed portion of B and C.



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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:
Why is potatoA necessary for this experiment?



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12. 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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13. 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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