

CELL - A BASIC UNIT OF LIFE

WORKSHEET - 5

Class 9

1. Which cell organelle carry oxidative reactions including removal of toxic substances?
2. Name the cell organelle exclusively found in animal cell.
3. What will happen to a plant cell if it is kept in a hypotonic solution?
4. Why is endocytosis found in animals only?
5. Give example of prokaryotes.
6. Who discovered cell and how?
7. What lysosomes?
8. What would happen if the plasma membrane ruptures or breaks down?
9. What is osmosis?
10. Where genes are located?
11. Name the processes by which CO_2 and H_2O move into and out of the cell?
12. Name the organelle of the cell which has membrane bound sac filled with powerful digestive enzymes. Write its any one function in the cells?
13. Name the cell organelle which is able to destroy a damaged cell.
14. Name the process in which diffusion takes place through a selective permeable membrane.
15. Who discovered cells in living organisms?

Give an example of a unicellular organism.

CAREER BOOSTER

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SOLUTION

1. **Ans. Peroxisome.**
2. **Ans. Centriole.**
3. **Ans. It will swell due to entry of water by the process of osmosis.**
4. **Ans. Because they do not have a cell wall around cell membrane.**
5. **Ans. Bacteria and cyan bacteria**
6. **Ans. Robert Hooke in 1665 discovered cell while he was examining a piece of cork slice with the help of his self-made primitive type of microscope.**
7. **Ans. lysosomes are a kind of waste disposal system of the cell which help to keep the cell clean by digesting any foreign material as well as wern out cell organelles.**
8. **Ans. Plasma membrane at times may get ruptured or breaks down. Especially during the process of endocytosis and exocytosis which later on are repaired by Golgi complex.**
9. **Ans. Osmosis is the passage of water from a region of higher water concentration (a dilute solution) through a semi-permeable membrane to a region of lower water concentration (a more concentrated solution).**
10. **Ans. On the chromosome.**
11. **Ans. Diffusion and Osmosis.**
12. **Ans. Lysosme. Function : they break down organic material.**
13. **Ans. Lysosome.**
14. **Ans. Osmosis**
15. **Ans. Robert Hook e.g., Amoeba**