

THE FUNDAMENTAL UNIT OF LIFE

ASSIGNMENT 1

1. Define the following: Cell, osmosis, diffusion, plasmolysis.
2. Who discovered the following: Living cell, dead cell, nucleus, protoplasm.
3. Why is cell called structural and functional unit of life?
4. What are the main components of living cell?
5. What are the following made up of: plasma membrane, cell wall.
6. What will happen to a cell when it is kept in hypotonic solution?
7. What will happen to a cell when it is placed in hypertonic solution?
8. Why do plant cells have a cell wall? (2 points)
9. Where are chromosomes present in a cell?
10. What are chromosomes made up of?
11. Name the functional unit of DNA and write its function.
12. Write three points of differences between prokaryotic and eukaryotic cell.
13. Write two functions of cell wall.
14. What will happen to an animal cell when placed in hypotonic solution for a long time?
15. When a swollen cell is placed in hypertonic solution, what will happen to the cell and write reason for your observations.
16. How can we deshell an egg?
17. Who gave the cell theory and also state the theory.
18. Who extended the cell theory and write the extended cell theory.
19. Name the largest and smallest cell.
20. Name the longest cell in animals.