

Cell Membrane Study Sheet

1. In 1665, _____, an English scientist observed that cork was composed of small units which he called _____.
2. _____ states that living things are composed of cells.
3. A _____ is a hypothesis that scientific investigations have shown to be true most of the time.
4. A _____ is a hypothesis that scientific investigations have shown to be true all of the time.
5. Many organisms such as _____, _____, some _____, and _____ are composed of only a single cell.
6. Single celled organisms are described as being _____.
7. Organisms which are composed of many cells are described as being _____.
8. All cells live in a _____ environment.
9. The human body is about _____% water.
10. The _____ allows materials to come into or out of a cell.
11. _____ means that the membrane only allows certain things to pass into or out of a cell.
12. Cell membranes are composed of _____ layers of molecules called _____.
13. The phospholipid cell membrane is composed of atoms called a _____ group and _____ (fats) such as _____.
14. The outside parts of the phospholipid bilayer are described as being _____ (water loving) and the inside parts are described as being _____ (water fearing).
15. Are you hydrophobic or hydrophilic? _____
16. _____ is the universal solvent.
17. Because the outside and inside of the phospholipid bilayer attracts water, things can dissolve to join with the membrane to enter or leave the cell.
18. Embedded in the cell membrane are _____.
19. Some proteins are bonded together to form _____ through which certain things can pass into or out of the cell.
20. A _____ is a work of art composed of bits and pieces of things inlaid into some uniform surface.
21. The model of the cell membrane is often described as being a _____.
22. _____ is the random movement of particles resulting in their movement from a region of greater concentration to one of lesser concentration.
23. Oxygen enters a cell and carbon dioxide leaves a cell by way of _____.
24. _____ is the diffusion of water through a semipermeable membrane.