

Cell Review Questions

1. What is an organelle? Small organs structure inside a cell
2. Organelle known as the powerhouse Mitochondria
3. Organelle known as cell stomach Lysosomes
4. Organelle known as cell brain Nucleus
5. Organelle present in prokaryote cells Ribosomes
6. Organelle present in animal and plant cells
 - a. Mitochondria
 - b. Nucleus
 - c. Ribosomes
 - d. RER
 - e. Golgi body
 - e. Cell membrane
 - f. Nucleolus
 - g. Smooth endoplasmic Reticulum
 - h. Vacuoles
 - i. Cytoplasm
7. Organelle present only in plant cells Chloroplast and Cell Wall
8. Organelle present in animal cells only Centriole and Lysosomes
9. What are the three scientists that develop the cell theory?
 - a. Theodore Schwann
 - b. Mathias Scheiden
 - c. Rudolph Virchow
10. What are two other names for the cell membrane?
 - a. Plasma membrane
 - b. Phospholipid bilayer
11. What does the word cell means? Small box or room like

Cell Review Questions

12. What is the function of the cell membrane? Controls what enter or leaves the cells
13. What is a solution? It's a mixture of a solvent and a solute
14. What is diffusion? Motion of particle through a semi-permeable membrane from high concentration to low concentration
15. What is osmosis? Motion of water through a semi-permeable membrane from high concentration to low concentration
16. What is the consequence to a cell in a hypertonic cell? Cell shrinks
17. What is the consequence to a cell in a hypotonic cell? Cell swells
18. What is the consequence to a cell in an isotonic cell? Cell stays the same
19. What is active transport? Motion of substances through a semi-permeable membrane from low concentration to high concentration and requires energy ATP.
20. What is passive transport? Motion of substances through a semi-permeable membrane from high concentration to low concentration, no energy required No ATP.
21. Mention two types of endocytosis Phagocytosis and Pinocytosis
22. Mention the difference between pinocytosis and phagocytosis
Phagocytosis cell engulfs or eats
23. What is a concentration gradient? high concentration to low concentration

Cell Review Questions

24. Define the following prefix:

- a. Endo Inside
- b. Exo outside
- c. Hypo less
- d. Hyper More
- e. Iso equal
- f. Phago eat
- g. Pino drink
- h. Cytos cell
- i. Semi allow some things through
- j.

25. Ocean water (hypertonic, hypotonic, isotonic)

26. Distill Water (hypertonic, hypotonic, isotonic)

27. Red blood cells (hypertonic, hypotonic, isotonic)

28. Why animal cells don't have cell wall? **animals can move and are more flexible than plants.**

29. Why plant cell have large vacuole? They need a lot of water

30. Which cell is bigger prokaryote or eukaryote? eukaryote

31. Why the plasma membrane is considered a semi-permeable membrane?

Selects what can pass or go through the membrane

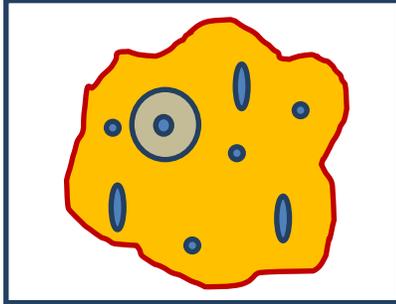
32. Mention three component present in the cell membrane

- a. Phosphates
- b. Proteins
- c. Lipids

Cell Review Questions

Draw the following

Animal Cell

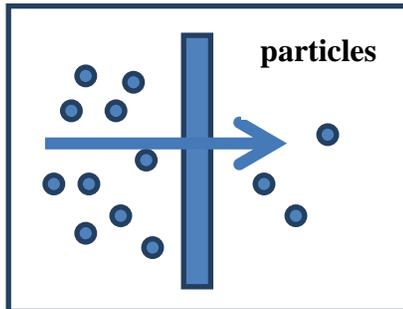


Plant Cell

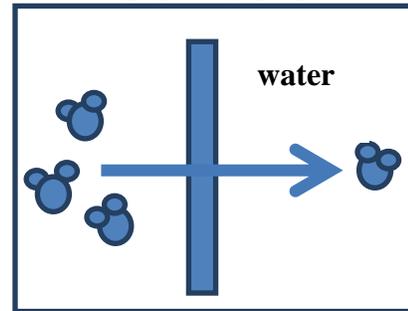


VS

Diffusion

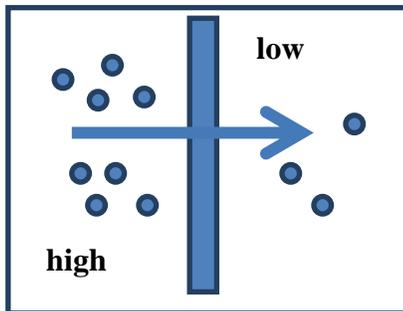


Osmosis

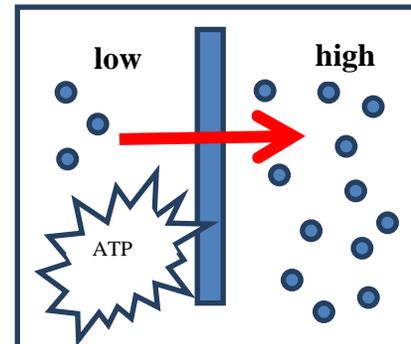


VS

Passive Transport

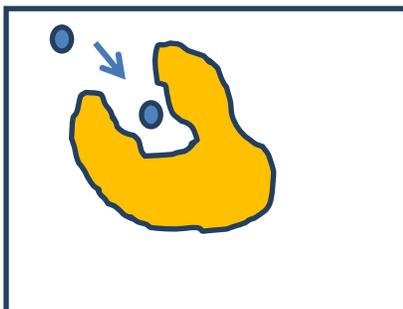


Active Transport



VS

Endocytosis



Exocytosis



VS