

Review Sheet for Chapter 3 Test

Be able to define:

active transport

alveoli

amino group

bladder

brochiol tree

cellular respiration

cholesterol

concentration gradient

cytoplasm

cytosol

deamination

diffusion

equilibrium

exocytosis/endocytosis

facilitated diffusion

glycolipid

glycoprotein

hydrophobic/hydrophilic

hypertonic

hypotonic

isotonic

kidney

liver

nitrogenous wastes (ammonia, urea, uric acid)

osmosis

passive transport

phagocytosis

phospholipid bilayer

pinocytosis

solute

solvent

trachea

turgor pressure

ureter

urethra

Understand these concepts & understand how they may interrelate. Be able to explain them fully. If there is a picture involved, make sure you know how to draw it.

- What type of molecules would be able to cross the phospholipid bilayer, through transport proteins, by endocytosis
- Difference between plant cell boundaries & animal cell boundaries (which has a cell wall?)
- Membrane: structure & its components
- Diffusion & osmosis (which direction would a molecule go because of a particular gradient-lab)
- Transport mechanisms and energy costs (active vs. passive)
- Understand the relationship between cell size and efficiency of diffusion (surface area/volume ratios and how to calculate them-lab)
- Understand the need for gill countercurrent exchange and be able to show how it works
- Pressure and volume relationship: be able to explain the mechanisms involved for human breathing (balloon apparatus demonstration in class)

What would happen to a cell in different concentrations (hypertonic, hypotonic, isotonic)

- Know the major parts of the human respiratory system and function
- Know the major parts of the human urinary system and function