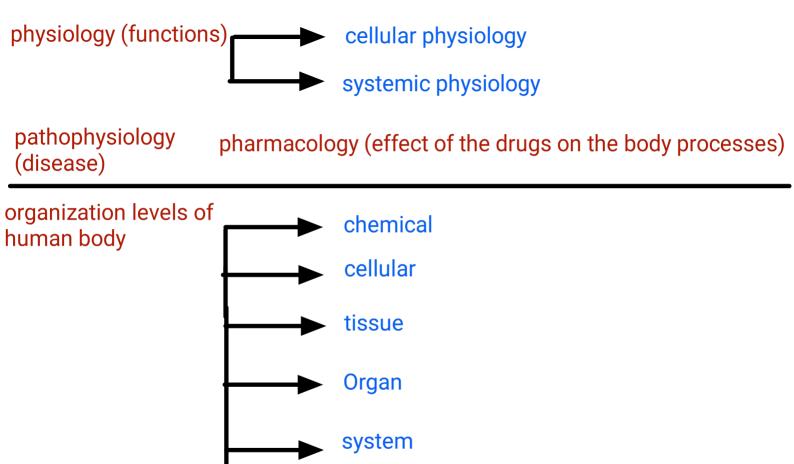
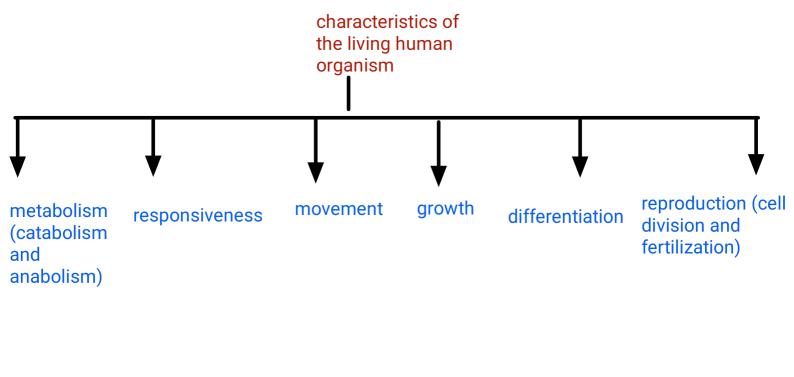
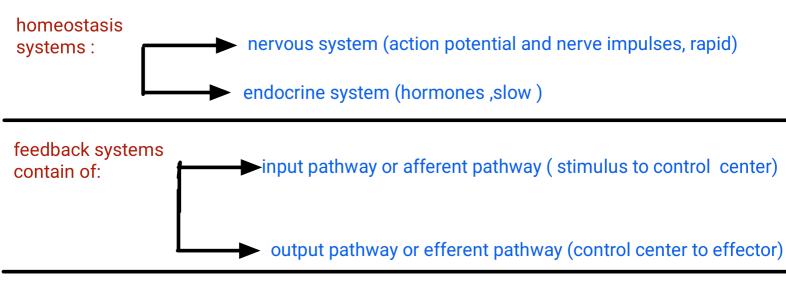
introduction of physiology(part 1)

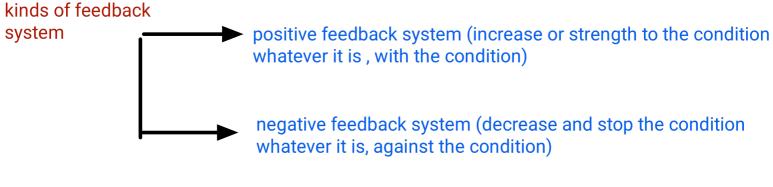


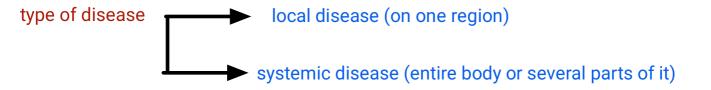
organism







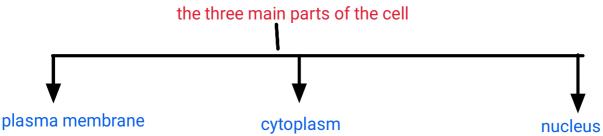




symptoms —— subjective changes that's not appearance to the physician

signs ——— objective changes that can be measured or observed by physician

introduction of physiology (part2)



(semipermeable) (fluid structures)

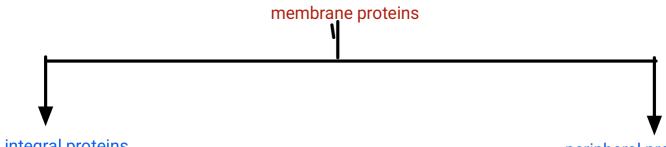
_contains 75% phospholipids, 20% cholesterol and 5% glycolipids

_the lipids are amphipathic molecules

(asymmetric) due to glycolipids that appear on the membrane liar that faces the extra cellular fluid

80% cytosol and 20% organelles the cytosol consists of 75-90% water and it is the chemical reactions site

control center and contains DNA or genetic material



integral proteins

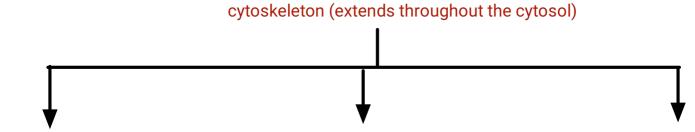
(span the entire lipid bilayer)

- _ion channels
- _carrier or transporters
- _receptors
- _enzymes
- _linkers
- _cell identity marker

peripheral proteins

(attached to the polar head of lipid membrane or to the integral protein)

_enzymes and linkers _support the plasma membrane _anchor the integral proteins _mechanical activities such as movement materials or attaching cells



microfilaments

_the thinnest _composed of myosin and actin proteins -muscle contraction, cell locomotion, cell division and support

intermediate filaments

_thicker than
microfilaments but
thinner than microtubules
_found in cells of
mechanical stress
_stabilization

microtubules

_the largest _composed of to tubulin _determine cell shape and movement