-body water is very bulky(ضخم)

-intracellular fluid inside the cell membrane of the body cell. it's the major compartment.

-inside the joint there is synovial fluid.

-brain and spinal cord is surrounded by meninges(inside it there is a fluid called cerebrospinal fluid(CSF))

-interstitial fluid <u>contain</u> 1-CSF. 2-synovial fluid. 3-intraocular fluid(في العين).

-the knee joint has 2ml of synovial fluid.

-intravascular fluid present also in lymph fluid.

lymph fluid is milky white ; because its rich of fat.

-baby from 1day 1month called (new born), after 1month we called him infant.

2-3 years (young child). 8-9(young child). 50's(old age). +60(senile)

- -who have less water content?
- -infant. -adult. -obese because having high content of fat.
- -in female there is less water ; because they have more content of fat.
- -infant are more sensitive to vomating and diarrhea(may cause dehydration).
- -Na,Cl is together outside of the cell.
- -HCO⁻³: it's the major buffer in the ECF.

→ substances that resist change in PH incase of acidosis.

- -our GIT secret 8L of fluid we excrete 150ml only, and the rest is reabsorbed. -we are urinating 1-1.5 L per day.
- -sweat is very efficient in body temperature regulation : when the sweat evaporates , it decrease our temperature to normal.
- -nephron will filtrate all contents of blood except red blood cell and plasma protein.

- -albuminuria: albumin in urine main or mally we don't have albumin in urine.
- *cases of albuminuria: 1-nephritis. 2-pregnancy. 3-muscle exercises.
- When Na-K pump is pumping the ion should be dissolved in fluid.
- Any chemical reaction need fluid(water) such as enzymatic in liver.
- Exchange gases through alveolar needs fluids to dissolve the gas on them
 Normal PH: 7-7.8
- *acidosis if the PH less than normal. *alkalosis if the PH is more than normal.
- Renal failure cause severe acidosis.
- -hemostasis automatically blood clotting.
- -mouth breathing: (its lead to dryness in mouth + lose the function of nose)
- 1-acidosis. 2-nasal palyps.
- -around the eyes we have fluid called tears.
- -high temperature vaporate the tears so eye dryness will occurs(therapy : artificial tears)

-regulation of body temperature by thermoregulatory mechanism.

(Measurement of body water compartments)

-mechanical buffer : special for baby , amniotic fluid surrounds him(protect the fetus from the shocks)

- -fluids in the eye make a shock absorbtion + support the retina.
- -RS(respiratory system):*when acidosis increase , hyperventilation occurs.

*when alkalosis increase , apnea occurs.

لمطلوب في:

اسم المادة المستخدمة في القياس + المبدأ.

*apnea : temporary stoppage of breathing.