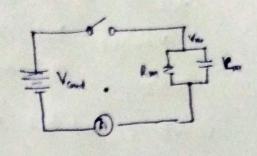
CT3 - B10

S. voltage-clamp experiment,

en controls the membrane voltage
in a cell and measures the

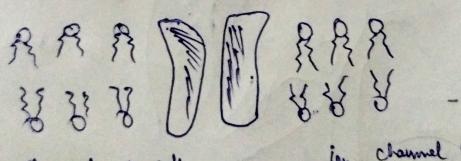
transmembrane current required to



maintain that vallage. The ideal rallage-clause circuit samply consists of a battery, a witch, a wine, all and an accounter.

when switch closes, the membrane potential deps instantly to the battery voltage; $V_m=0$.

→ There is a compulse of current injecting a change a= Con blad.

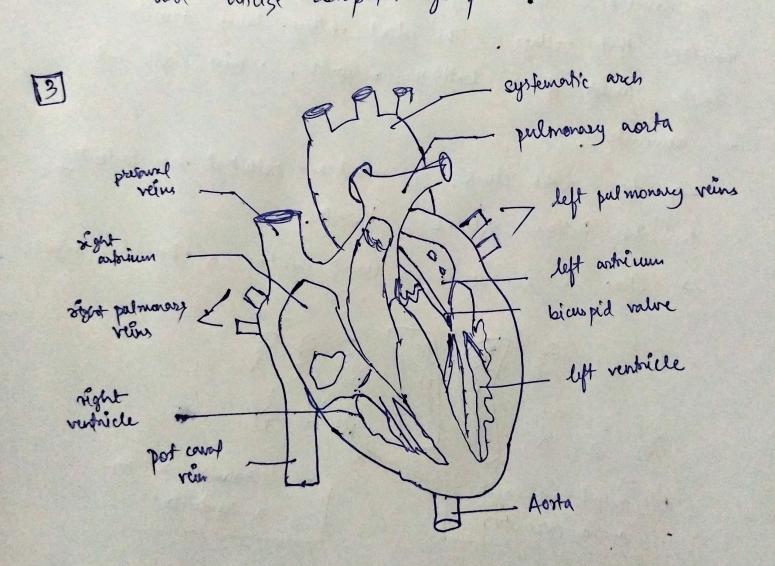


cell membrane acts
as a expositor

ion channel acts as

12 0) the modelling "a ter takinger of studying a local part of a model with refined mesh, based on interpolation of the solution from an initial, global model cinto appropriate parts of the toursery of the submodel.

E) Du to recent odvances in nutrods, software and touchurs, crystallographic structure determination no larger requires a excitalist in the method, but rather it has become a technique that can be occasily applied to many research problems. It needs to know how to walnute structural models, underland how tong are related to experimental data, and whilese computer grouphies.



4

Securory Neurons

- -> comp sembly impulse from serving organs to cutal responses system.
- -> botaled in the dorsal root garglion of spiral name.
 - a it is unipolar.
- → 10 million cursory norms in body.

Motor numery

- remain byten to specific effectors.
- southed in the rentral root gardion of upinal and.
- + it is multipolar.
- > Holf a million neurous found in body.
- Facemater is a small, bottery operated device, which senses when your heart is beating to regularly or too slow. It sends a signal to gother theart that makes then beat at the correct pace.

 Next pacematers have 2 parts:
 - is the generator contains the bottery and information to central the heutbest.
 - to the generator and carry the electrical messages to the heart.