\*This is called a countercurrent multiplier I the longer it is, filtrate flows in the more water is opposite dure ctions, reabsorbed up & dain

@ Distal convoluted tubule adjusting pH + salt conc Alf blood is too acidic:

- Secrete H+ from blood into tubule

- secrete NH4+ into kedney to bind to acids in kidney thus are secreted as waste ammonium salts in urine
- B) reverse for alkaline: - Absorb ions

(5) collecting duct

- in y of the blood hypothalangle Getect a change of neurosecretory cells frient ADH ofound the axon into the Posterior pitiently glapdage

blood

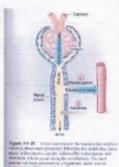
- al Travels through the blood to cells of collecting cluck (arethe target cells?
- el cells have esm receptor, which are complementary to ADH
- F) ADH binds to receptors, leading to an enzyme controlled reaction
- 9) vesicles containing aquaporins migrate & Asse to CD wall
- is so co is more permeable to water and more is reabsorbed =) volume of wrine decreaser

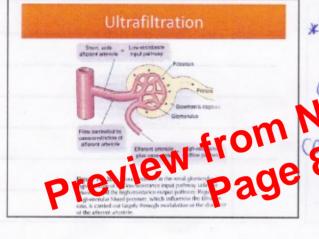
=) 4 decreaser

## The production of urine

There are many stages involved in the production of urine by the nephrons. They can be summarised as follows:

- 1. Ultrafiltration.
- 2. Selective reabsorption (including water reabsorption)
  - 3. Secretion.





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capillature) into B.C, along with
solutes.

