## Marks

1

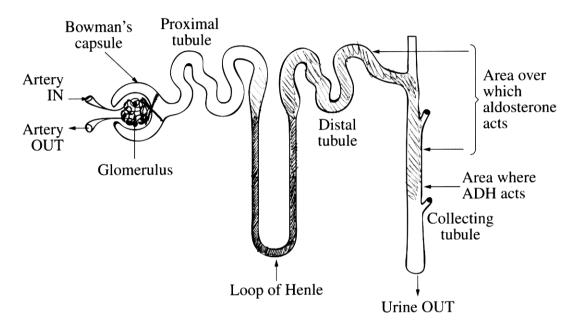
## **Question 23** (6 marks)

The diagram represents a nephron which is the functional unit of the kidney.

Nephrons make urine by:

- filtering small molecules and ions from the blood;
- reabsorbing the needed amounts of useful materials.

Surplus or waste molecules and ions flow out as urine.



- (a) Identify the area where filtration occurs, by marking it with an X on the diagram.
- (b) Identify the area where reabsorption occurs, by shading it on the diagram.
- Discuss the importance of hormone replacement therapy for people who cannot secrete aldosterone.

  Repletuho can't secrete aldosthere can't control the keek of salt in three blood its a result they have the wrong levels of salt on polossium in a blood this state is reversed vary the hormone flurearch sone within hormone replacement threndy. This is important for they those patients because: How an control the composition of their blood patients because: How though sufficient and a relatively stable internal environment. This is important so that their body may hunchon normally and therefore they can lead a relatively normal lib